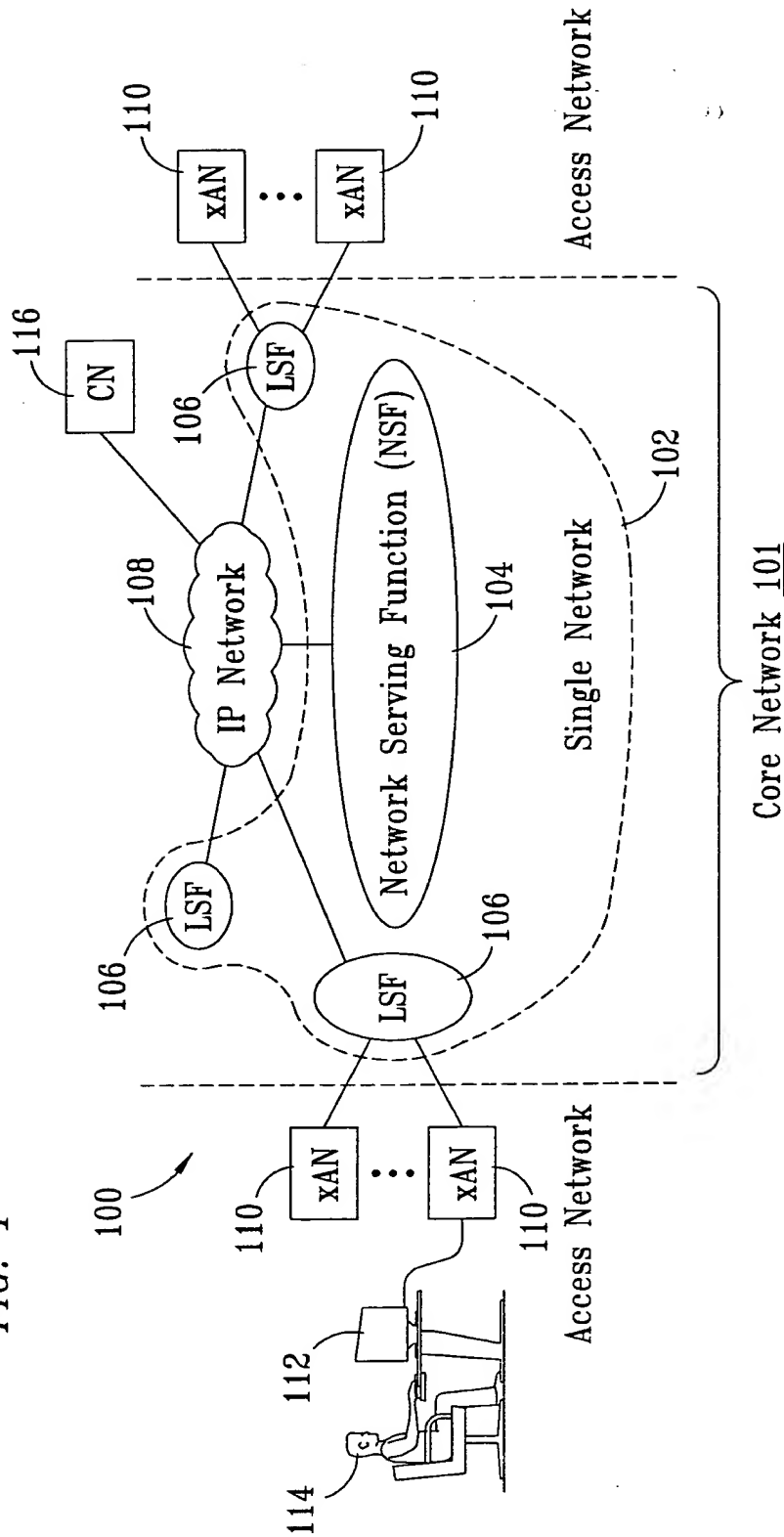


FIG. 1



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FIG. 2

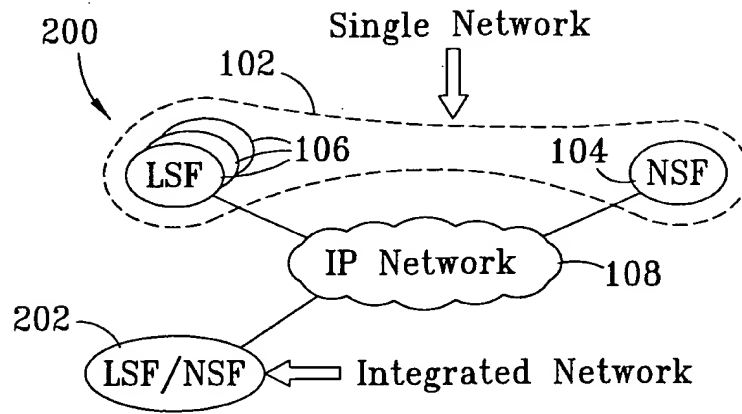


FIG. 3

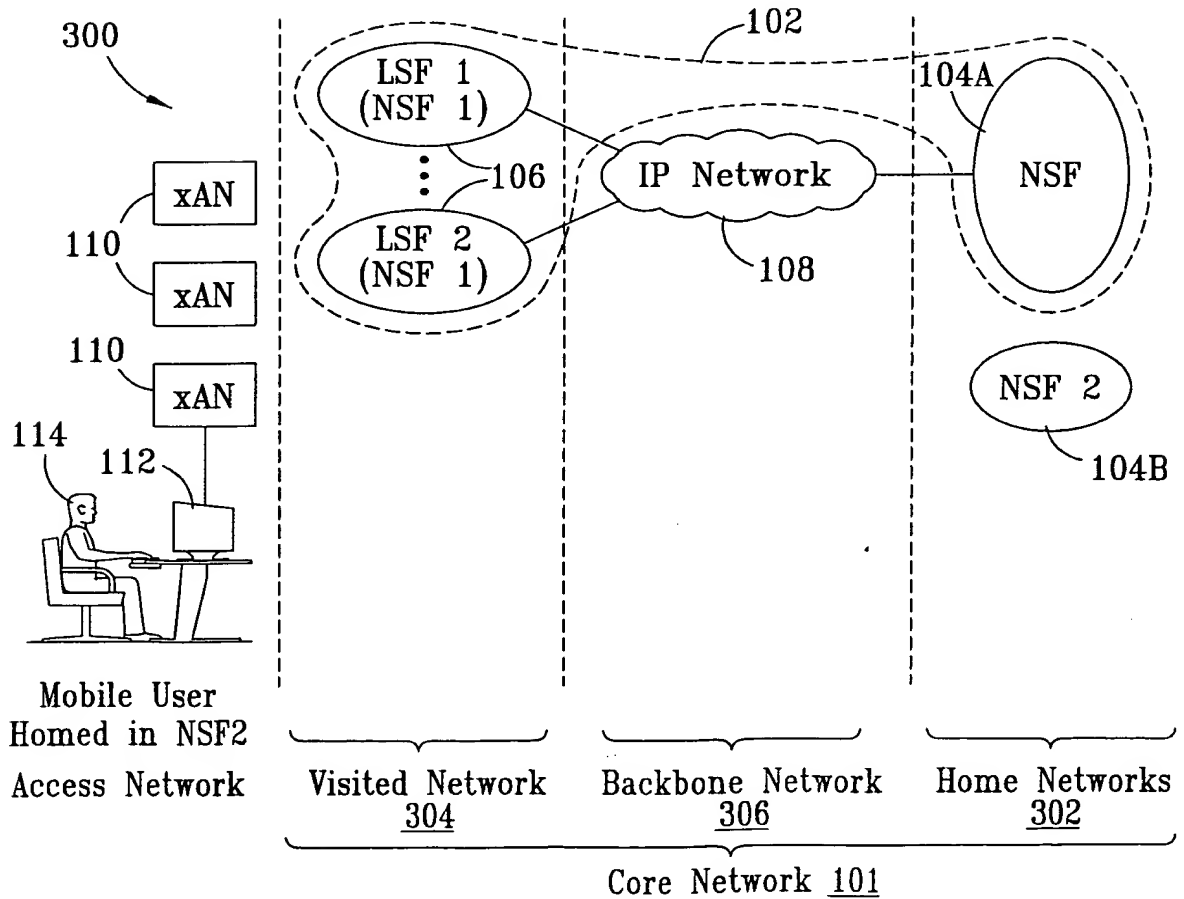
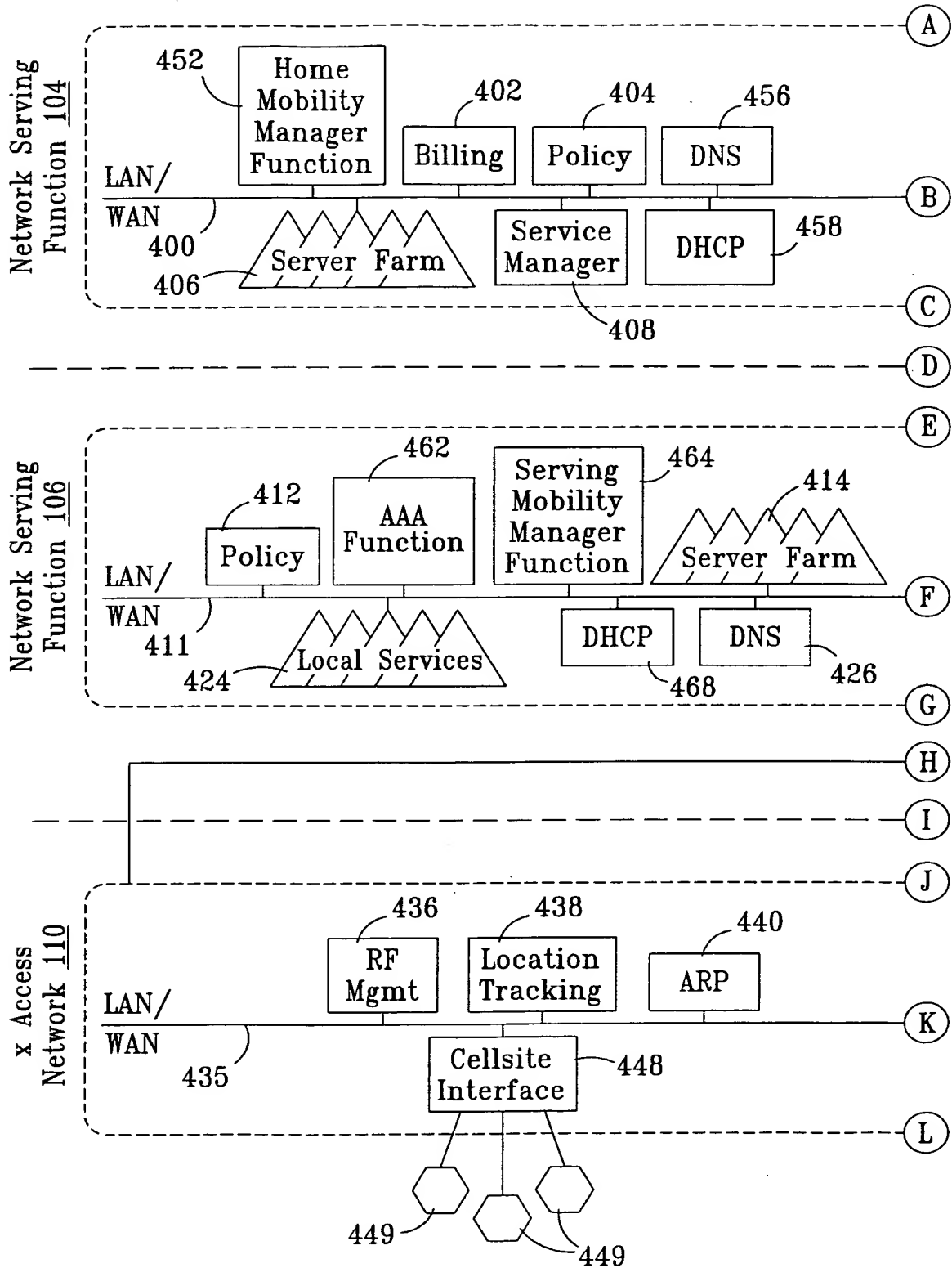
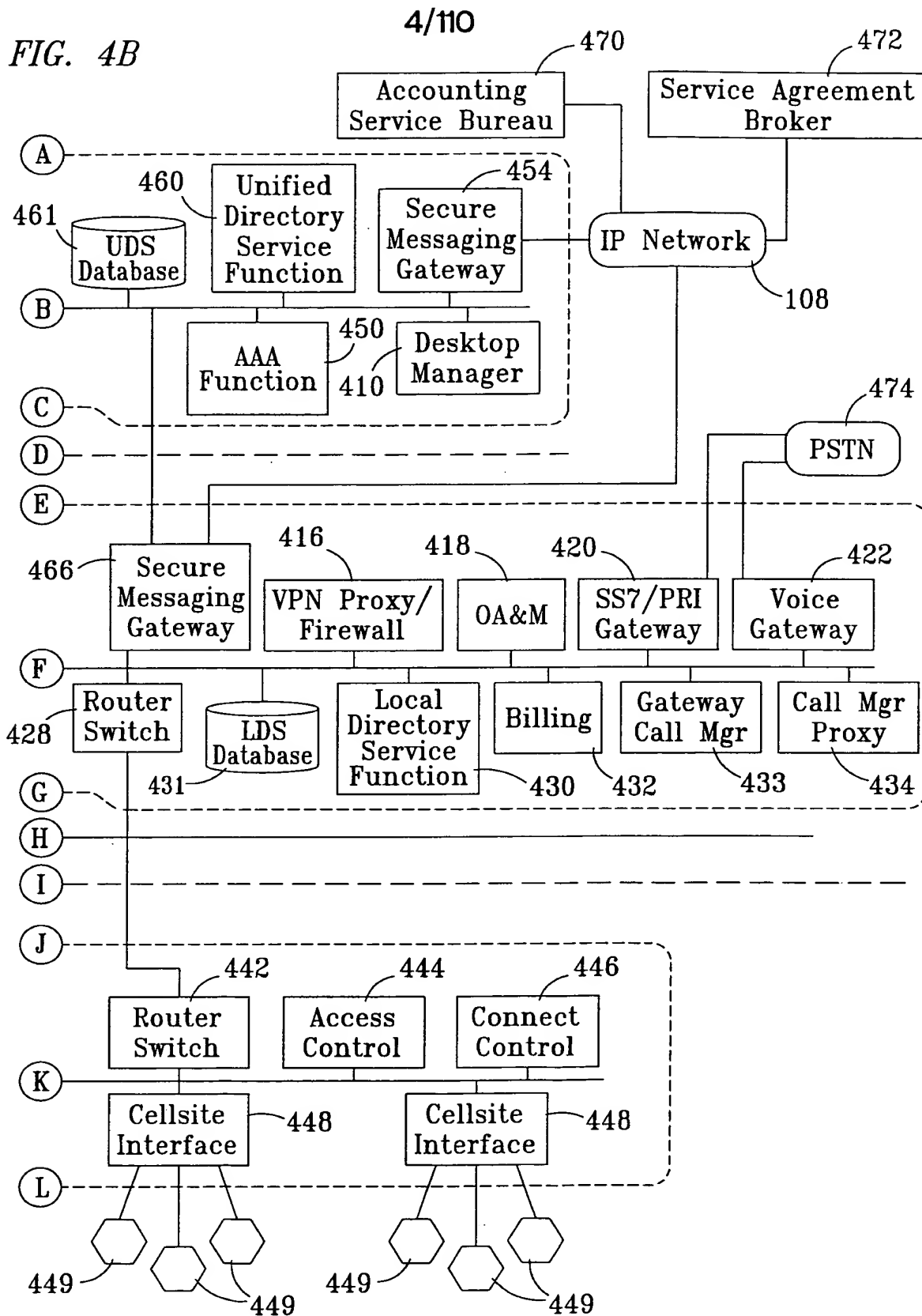


FIG. 4A

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FIG. 4C

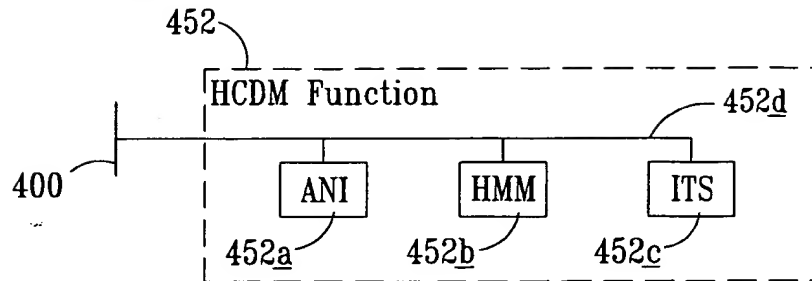


FIG. 4D

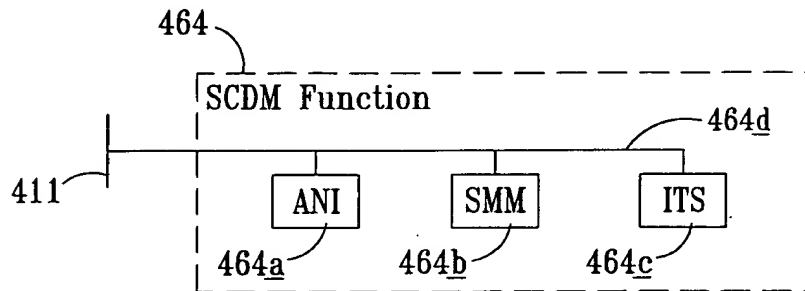


FIG. 4E

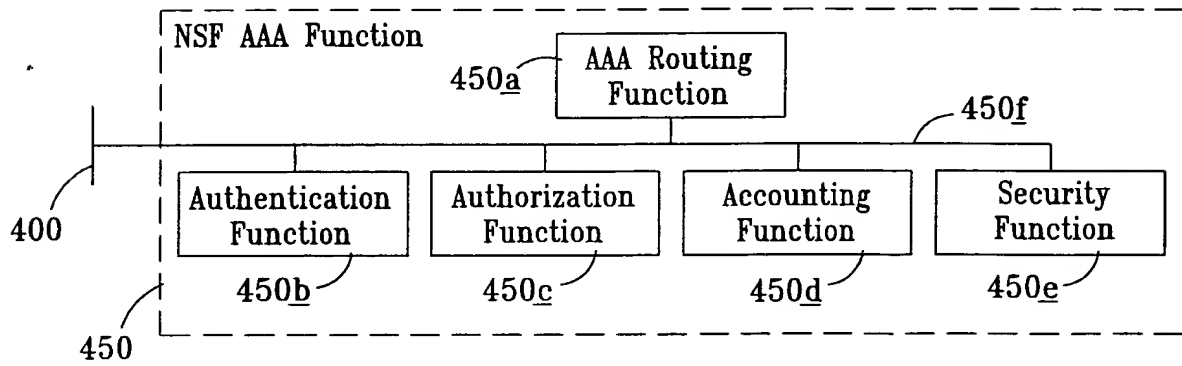
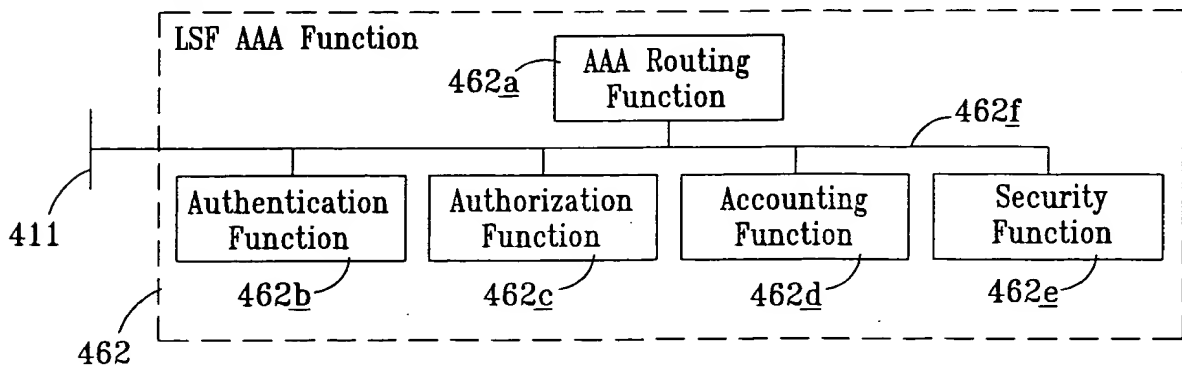


FIG. 4F



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FIG. 5

500

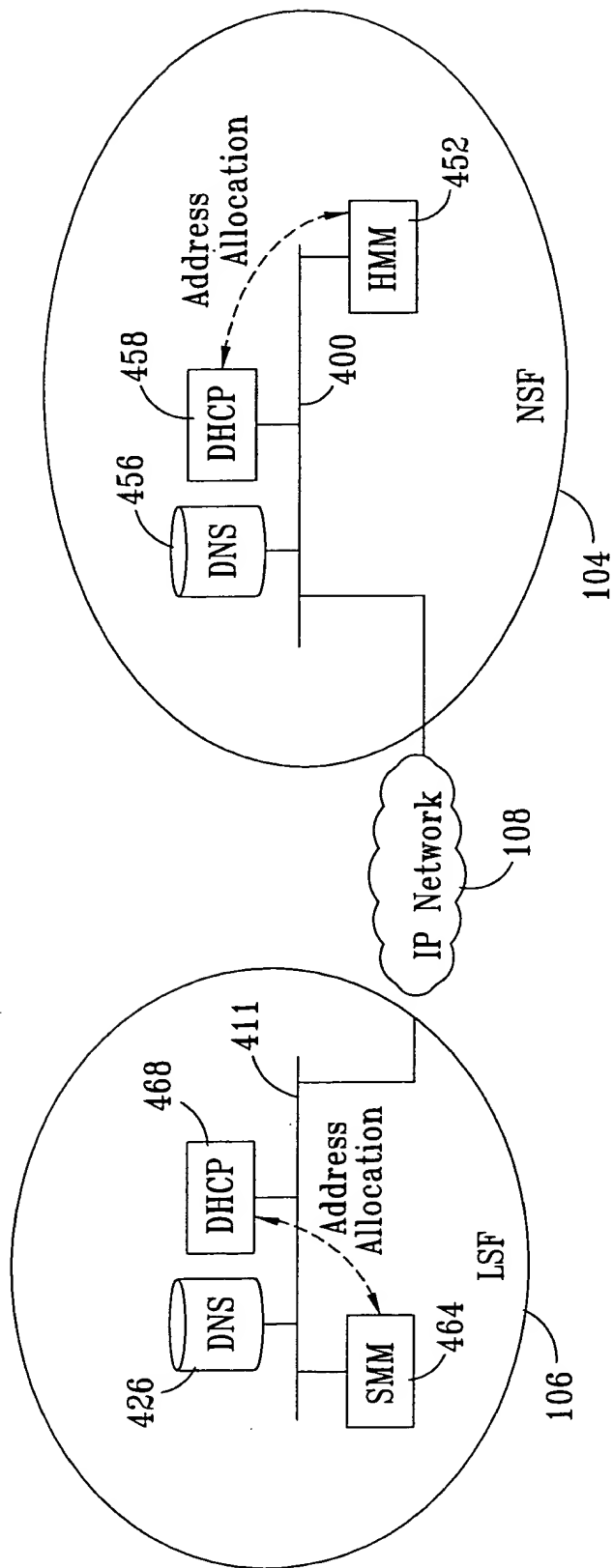


FIG. 5A

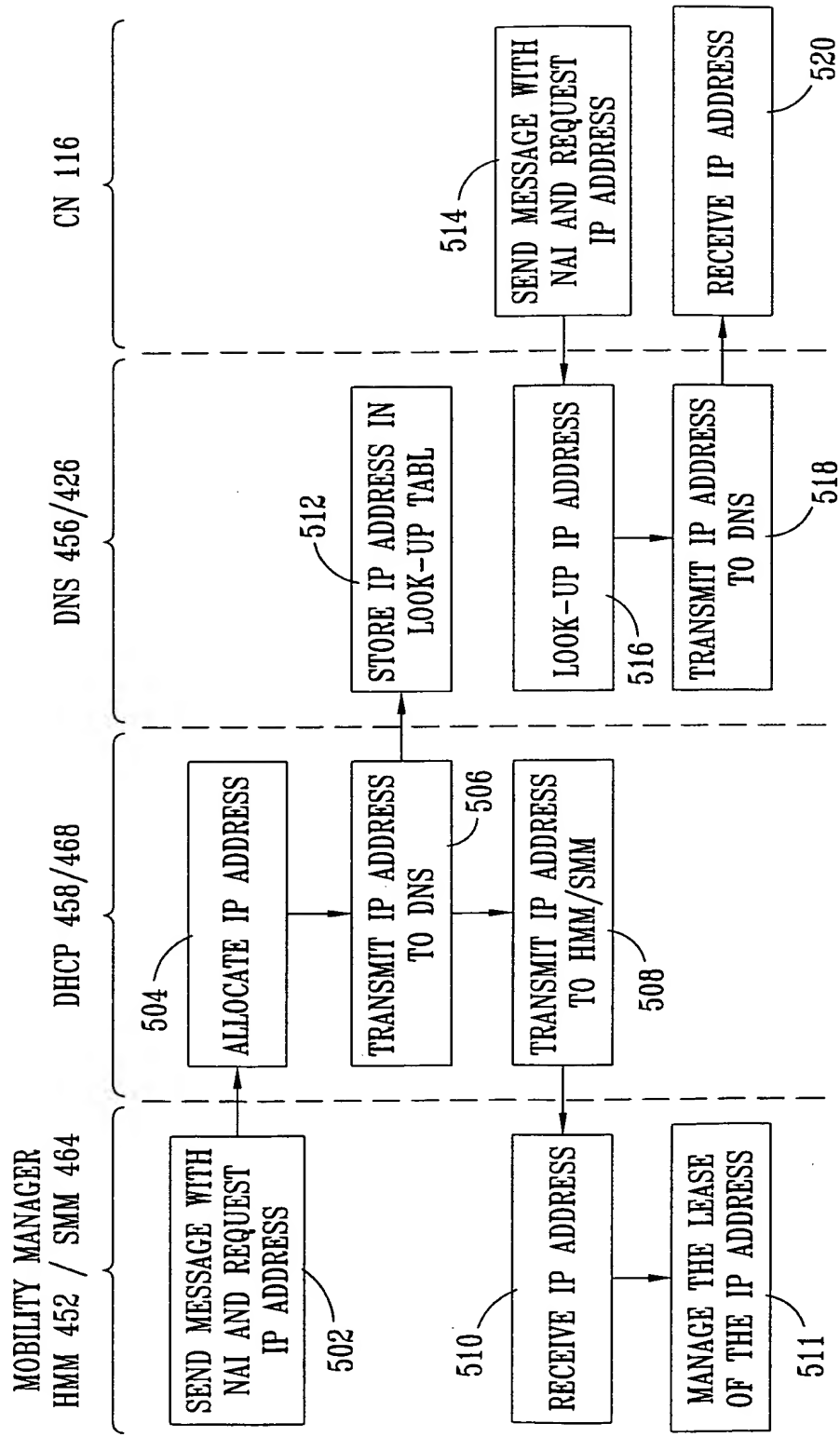
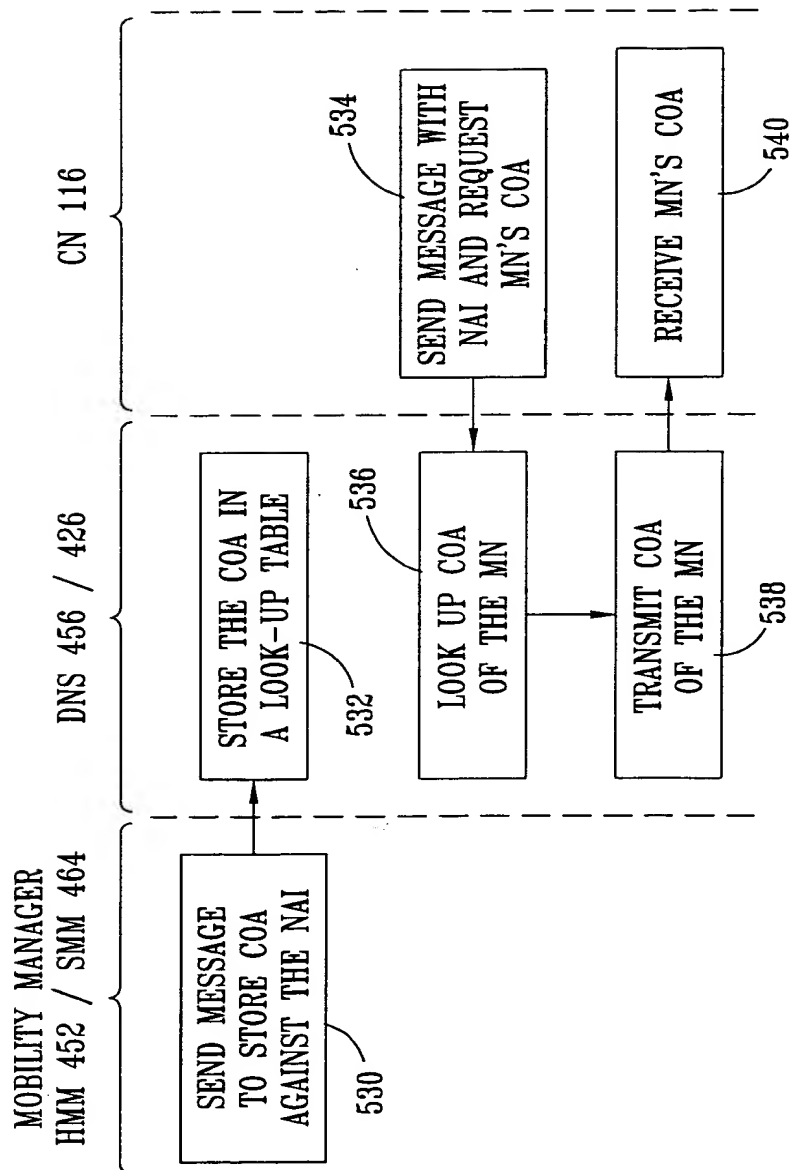


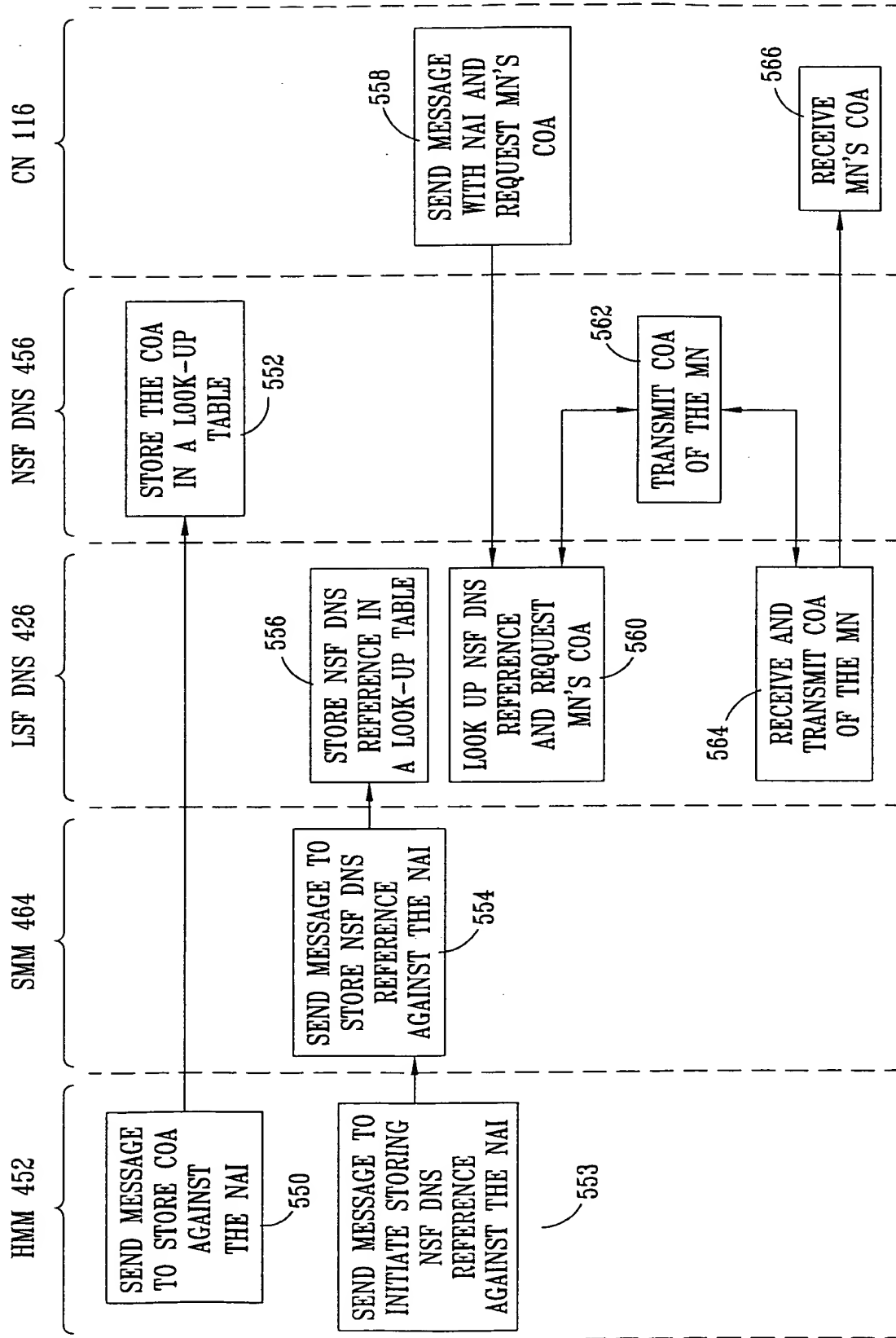
FIG. 5B





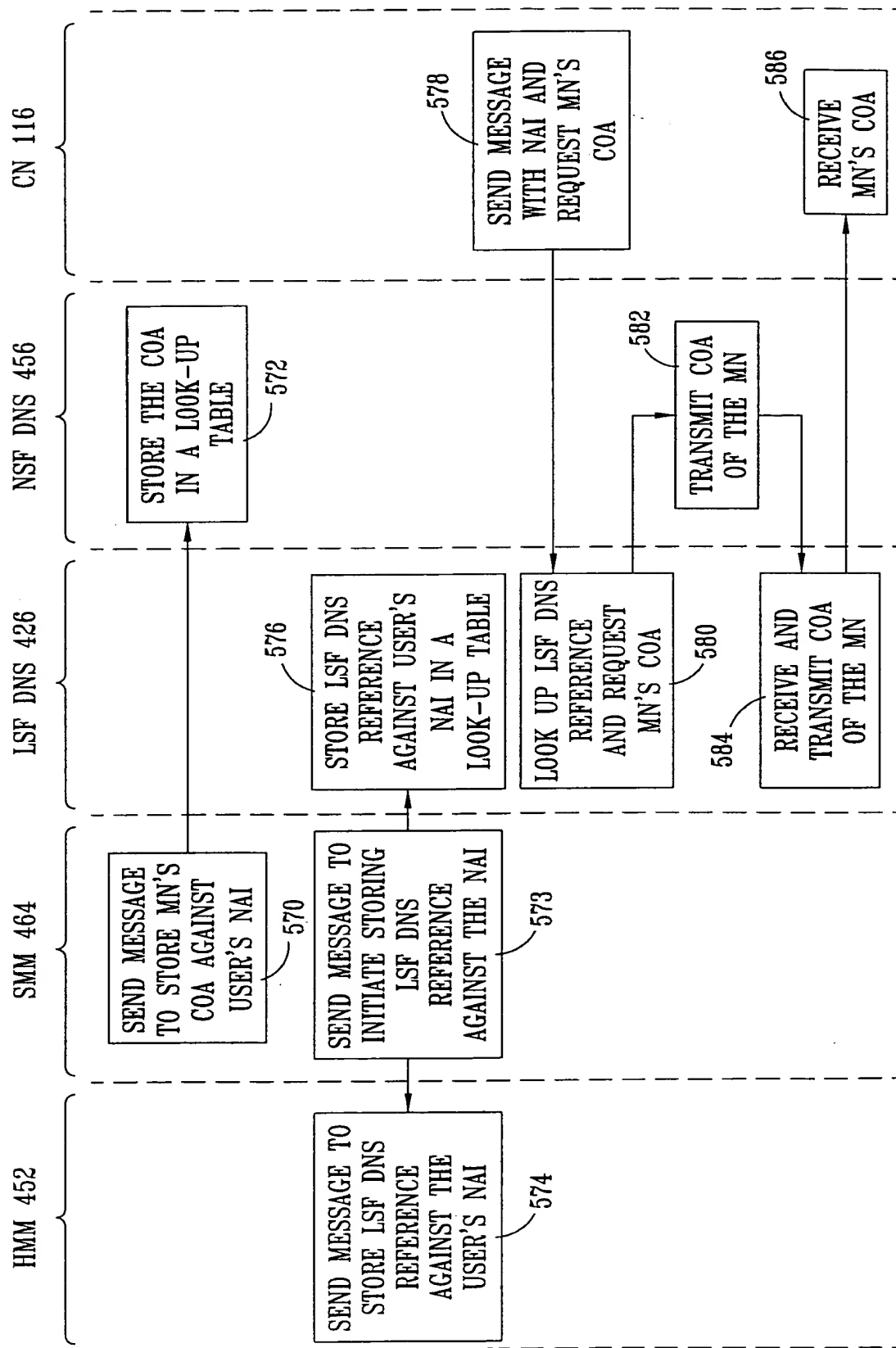
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FIG. 5C



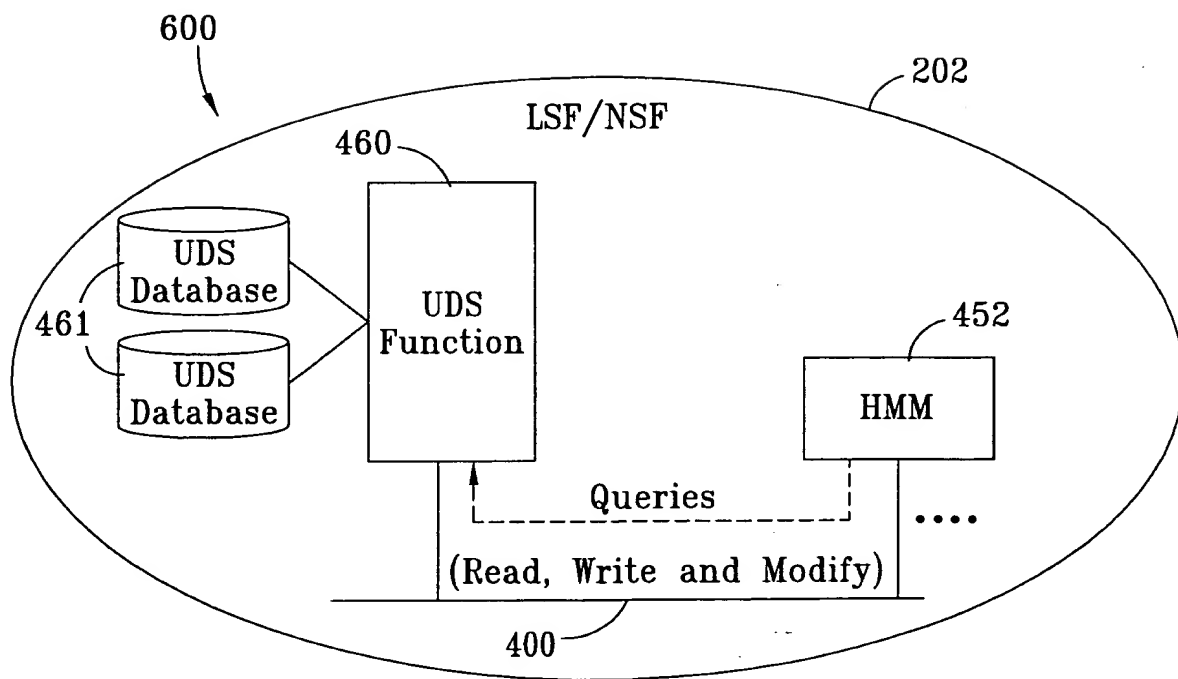
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FIG. 5D



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FIG. 6



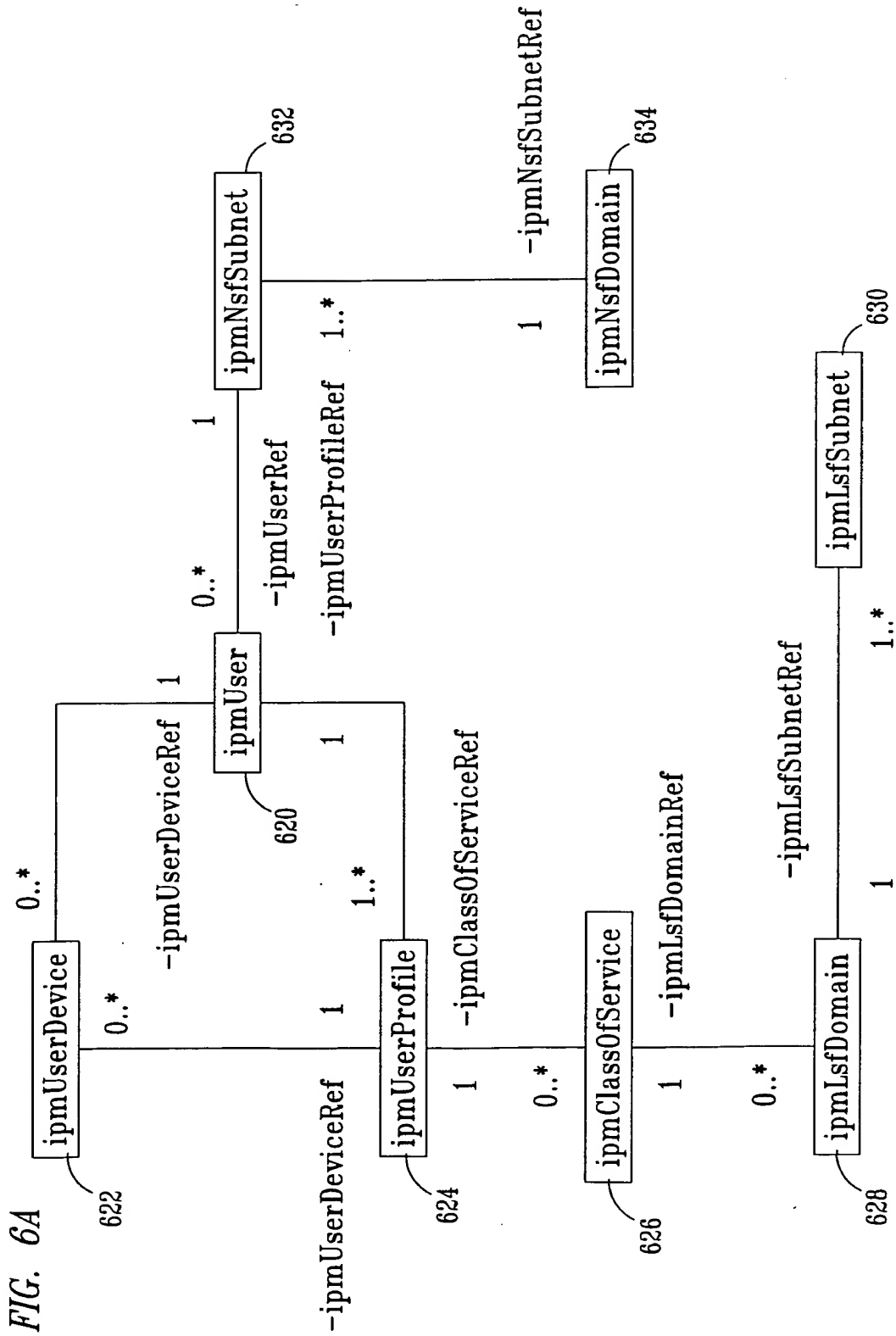


FIG. 6B(a)

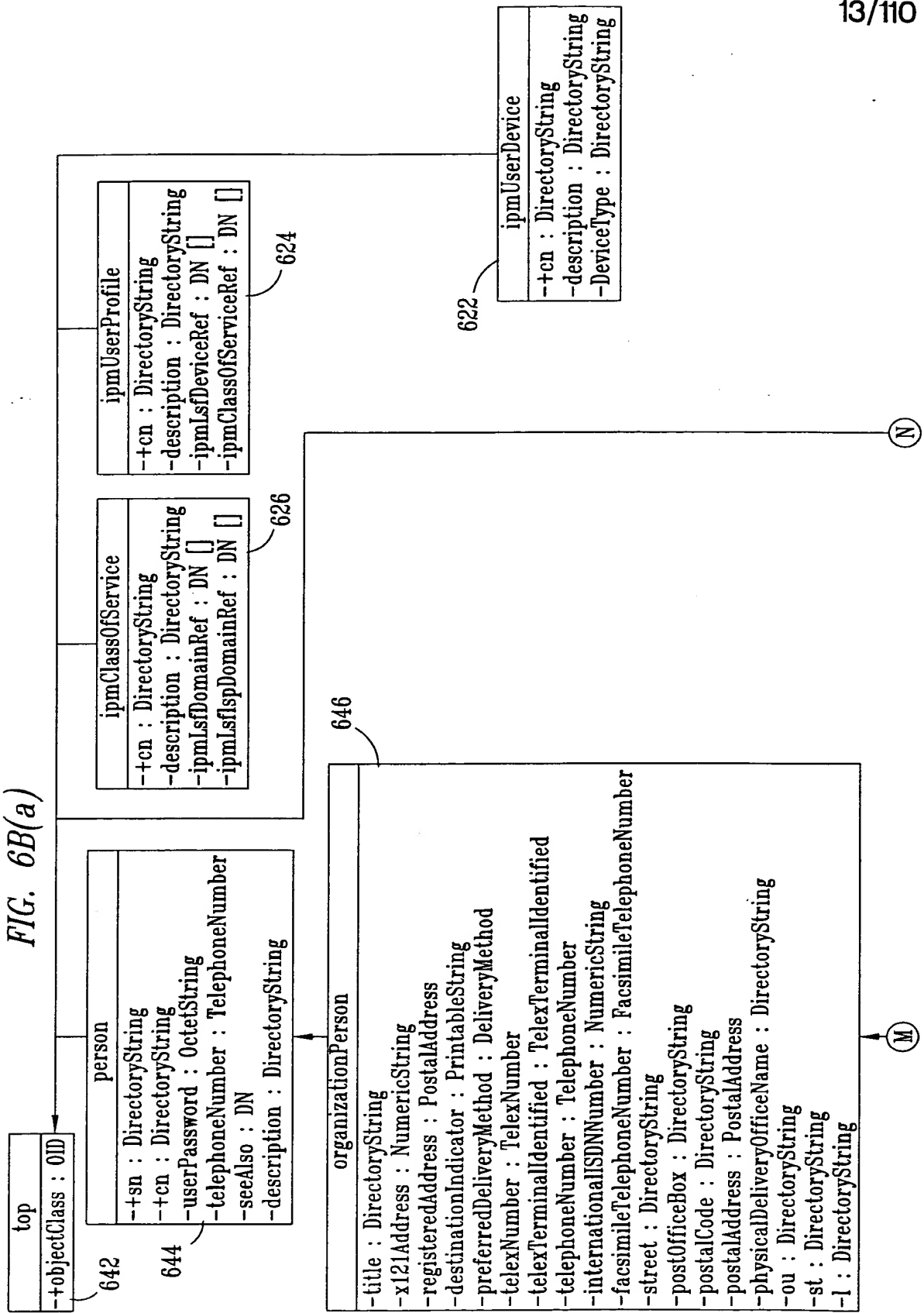
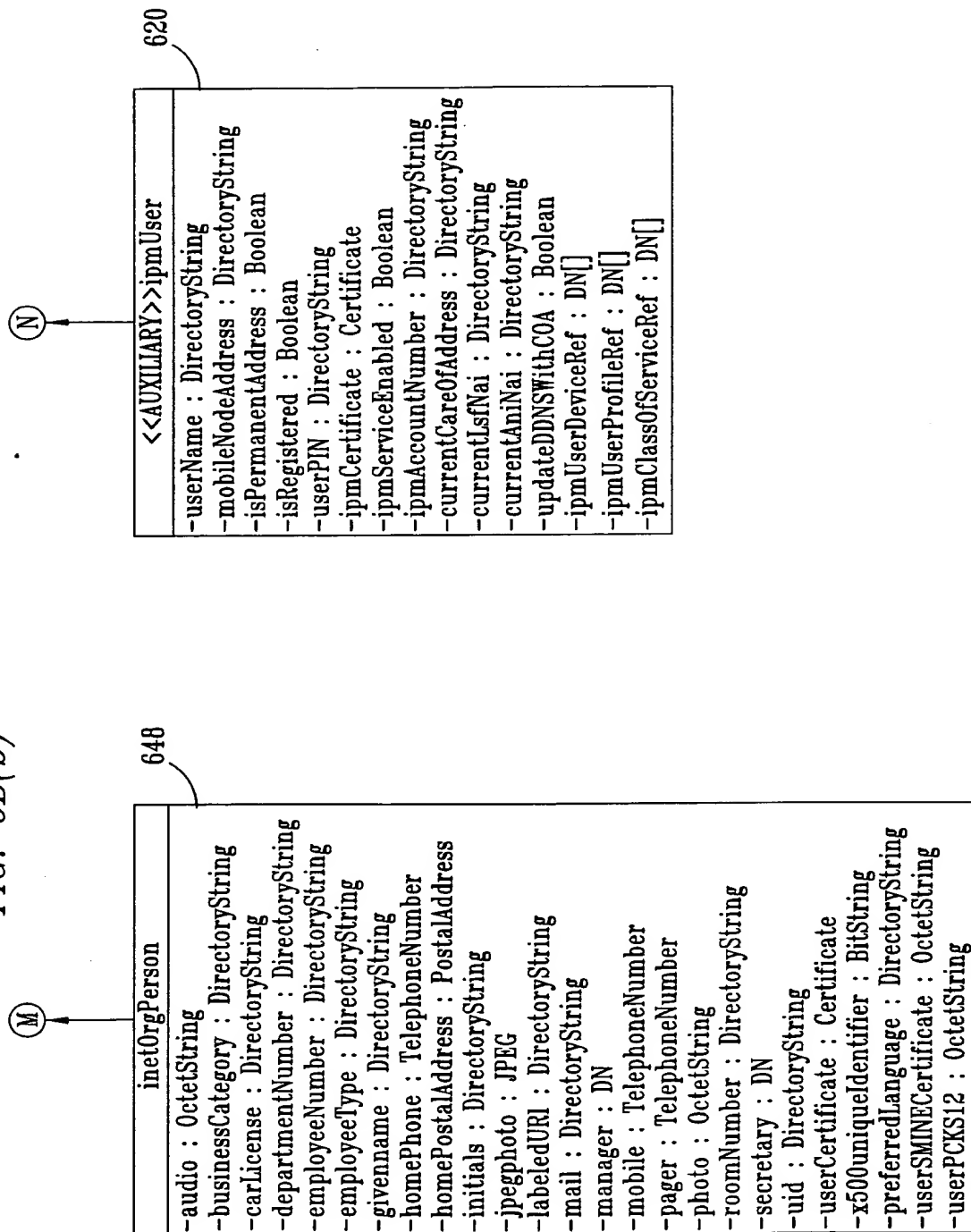
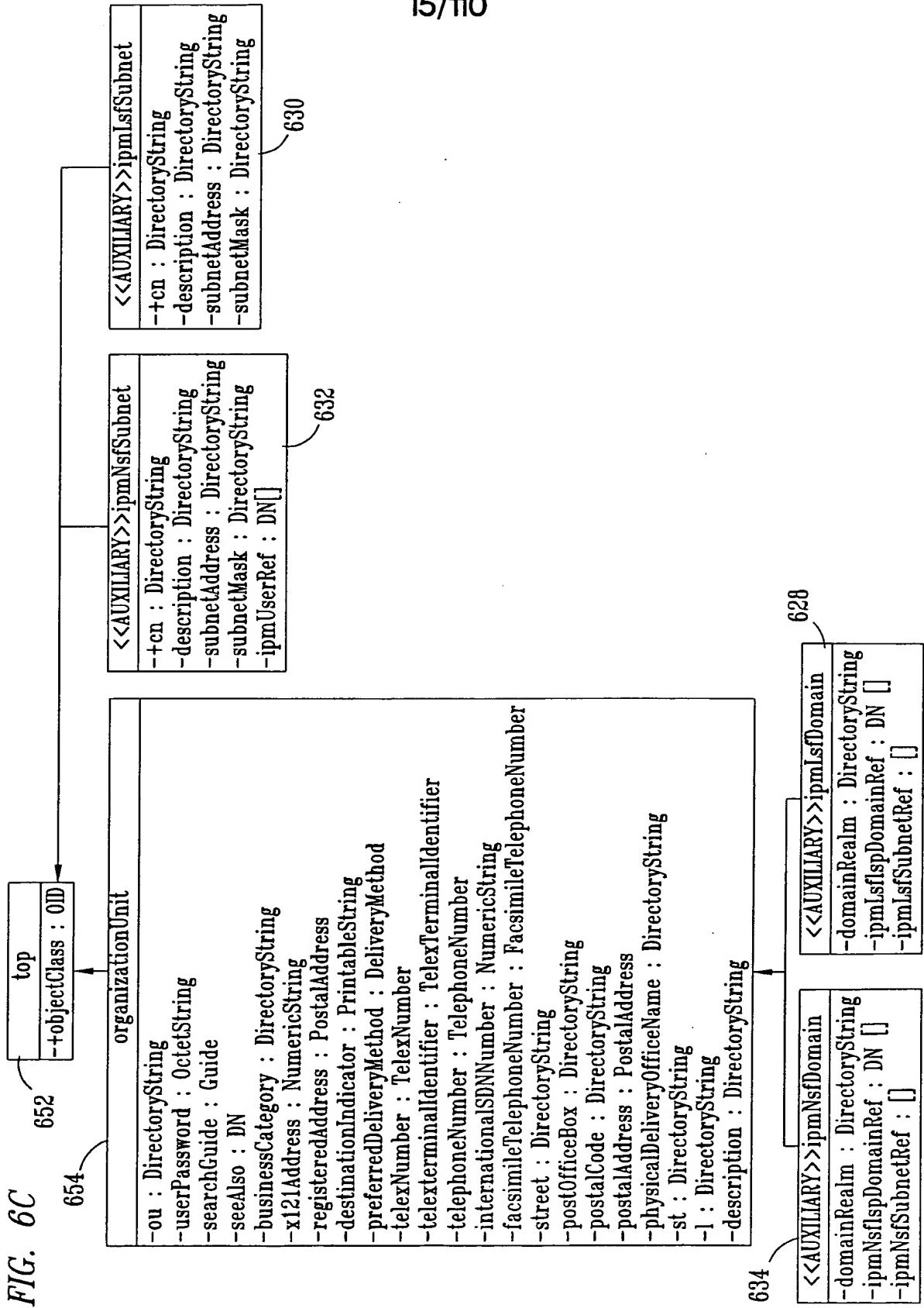


FIG. 6B(b)





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FIG. 6D

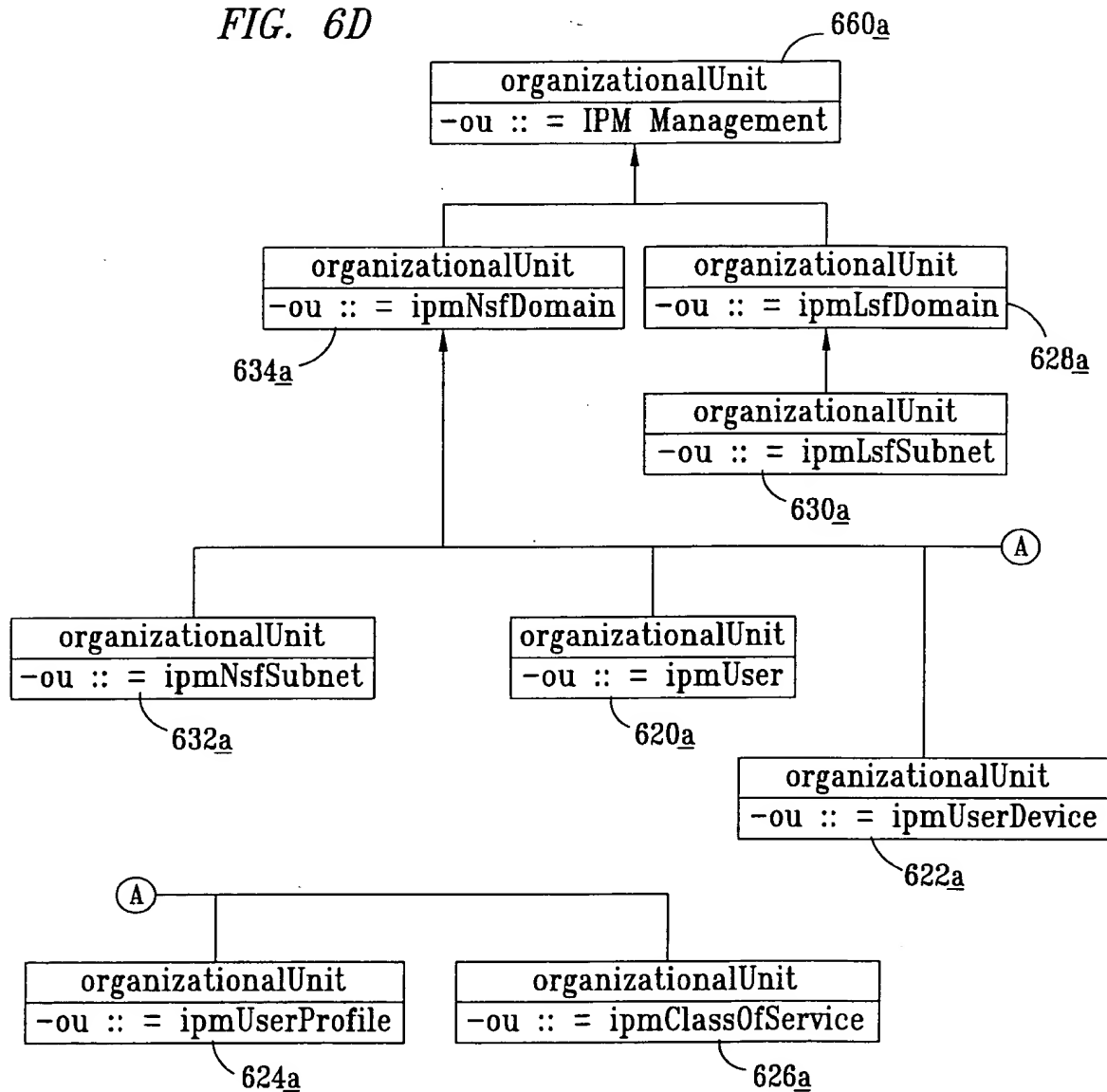




FIG. 6E(a)

| Name               | Type             | MatchingRule    | Multi-Valued | Purpose   | Example                   |
|--------------------|------------------|-----------------|--------------|---|---------------------------|
| userName           | Directory String | CasIgnoreString | No           | The name of the User (subscriber)   | john DOE                  |
| MobileNodeAddress  | Directory String | CasIgnoreString | No           | Mobile Node's home IP address   | 100.150.128.1             |
| IsAddressPermanent | Boolean          | CasIgnoreString | No           | Flag signifying whether the Mobile Node's home IP address was permanently provisioned or allocated (e.g. by DHCP) | FALSE                     |
| IsRegistered       | Boolean          | CasIgnoreString | No           | Flag signifying whether the Mobile Node is presently registered   | TRUE                      |
| currentLsfNai      | Directory String | CasIgnoreString | No           | NAI of the LSF at which the Mobile Node is registered   | smm1@southwesternbell.com |
| currentAniNai      | Directory String | Integer         | No           | 4 byte code identifying the Mobile Node's routing area (i.e. as is GPRS routing area)                             | 95                        |
|                    |                  |                 |              |   |                           |

(P)

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FIG. 6E(b)

|                      |                  |                  |     |  |  |
|----------------------|------------------|------------------|-----|--|--|
| currentCareOfAddress | Certificate      | CaseIgnoreString | No  | IP Care of Address for the roaming Mobile Node   | 240.240.10.66  |
| ipmAccountNumber     | Directory String | CaseIgnoreString | No  | User's account number assigned by the IPM security center                                  | 12345678   |
| ipmCertificate       | Certificate      | CaseIgnoreString | No  | User's Certificate generated by IPM Security Center  |  |
| userPIN              | Directory String | CaseIgnoreString | No  | User PIN number. It is an integer selected by the user to secure the access to his account | 123decx456   |
| ipmUserProfileRef    | DN               | DN               | Yes | The reference for the user profile objectclass   | DN: "uid=JohnJoe, ou=ipmUserProfile, ou=ipm Management, o=nortelnetworks"    |
| ipmClassOfServiceRef | DN               | DN               | Yes | The reference for the user class of service objectclass                                    | DN: "uid=JohnJoe, ou=ipmClassOfService, ou=ipm Management, o=nortelnetworks" |

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FIG. 6E(c)

|                           |                  |                 |     |  |   |
|---------------------------|------------------|-----------------|-----|--|---|
| ipmUserDeviceRef          | DN               | DN              | Yes | The reference for the user device objectclass                    | DN: "uid=JohnJoe,<br>ou=ipmUserDevice,<br>ou=ipm Management,<br>o=nortelnetworks" |
| UpdateDDNSWithCOA         | Directory String | DN              | No  | Update the DNS with the COA                                      | TRUE  |
| IPMServiceEnabled         | Boolean          | CasIgnoreString | No  | Flag signifying whether the IPM service is enabled               | FALSE   |
| Key Inherited attributes: |                  |                 |     |  |   |
| objectclass               |                  | CasIgnoreString | Yes | Schema objectclass that define mandatory and optional attributes | ipmUser   |
| cn                        |                  | CasIgnoreString | Yes | Common Name is the same as the naiUser for the phase I prototype | johndoe@nortelnetworks.com  |
| sn                        |                  | CasIgnoreString | No  | Surname (i.e. last name)   | Doe   |
| c                         |                  | CasIgnoreString | No  | ISO 3166 Country Code, optional                                  | US  |
|                           |                  |                 |     |  |   |

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FIG. 6E(d)

| I               | CaseIgnoreString | No | Locality(i.e. city or region), this is for user's address, optional | Dallas             |
|-----------------|------------------|----|---|--------------------|
|                 |                  |    |   |                    |
| st              | CaseIgnoreString | No | State or Province, optional   | Texas              |
| street          | CaseIgnoreString | No | Street address, optional  | 2201 Lakeside Blvd |
| apt             | Integer          | No | Apartment number  | 2061               |
| homePhoneNumber | CaseIgnoreString | No | User's home phone number  | 972-492-1777       |
| password        | CaseIgnoreString | No | User's password   | Ue998cd567         |

FIG. 6F

| Name        | Type             | MatchingRule    | Multi-Valued | Purpose  | Example                    |
|-------------|------------------|-----------------|--------------|--|----------------------------|
| cn          | Directory String | CasIgnoreString | No           | Common name for the ipmUserDevice  | johndoe@nortelnetworks.com |
| description | Directory String | CasIgnoreString | No           | The description list the device vendor, device model, the device version...  | e.g.(Qualcomm QCP-2700)    |
| deviceType  | Directory String | CasIgnoreString | No           | There are two device types, devices used by a mobile subscriber to access the network and devices that are logically the user, e.g. mobile routers | e.g.(notebook, mobile)     |

| Name                 | Type             | MatchingRule    | Multi-Valued | Purpose   | Example  |
|----------------------|------------------|-----------------|--------------|---|--|
| cn                   | Directory String | CasIgnoreString | No           | The common name for the ipmUserProfile objectclass            | bob@nortelworks.com  |
| description          | Directory String | CasIgnoreString | No           | List all the information about the ipmUserProfile objectclass | e.g.(home, office)   |
| ipmUserDeviceRef     | DN               | CasIgnoreString | No           | The reference for ipmUserDevice                               | DN: " uid=JohnJoe,<br>ou=ipmUserDevice,<br>ou=ipm Management,<br>o=nortelnetworks"     |
| ipmClassOfServiceRef | DN               | CasIgnoreString | No           | The reference for ipmClassOfService                           | DN: " uid=JohnJoe,<br>ou=ipmClassOfService,<br>ou=ipm Management,<br>o=nortelnetworks" |

FIG. 6G

FIG. 6H

| Name            | Type             | MatchingRule    | Multi-Valued | Purpose                                   | Example  |
|-----------------|------------------|-----------------|--------------|---|--|
| cn              | Directory String | CasIgnoreString | No           | The common name for the ipmClassOfService | bob@nortelworks.com  |
| description     | Directory String | CasIgnoreString | No           |   | e.g.(gold)   |
| ipmLsfDomainRef | DN               | DN              | Yes          | The reference for ipmLsfDomain            | DN: "cn=ipmLsfDomain, ou=ipm Management, o=nortelnetworks" |

FIG. 6I

| Name            | Type             | MatchingRule    | Multi-Valued | Purpose  | Example  |
|-----------------|------------------|-----------------|--------------|--|--|
| domainRealm     | Directory String | CasIgnoreString | No           | Realm component of the IETF Network Access Identifier for the home network | John.Doe@ISPabe.com  |
| ipmNsfSubnetRef | DN               | DN              | Yes          | The reference of the NSFsubnet   | DN: "cn=ipmNsfSubnet, ou=ipm Management, o=nortelnetworks" |

FIG. 6J

| Name          | Type             | MatchingRule    | Multi-Valued | Purpose   | Example              |
|---------------|------------------|-----------------|--------------|---|----------------------|
| cn            | Directory String | CasIgnoreString | No           | The common name for the ipmClassOfService   | ip10@nortelworks.com |
| description   | Directory String | CasIgnoreString | No           | The description for the ipmLsfSubnet  |                      |
| subnetMask    | Directory String | CasIgnoreString | No           | 32 bit value help the devices understand the limits or boundaries of the network and subnet | 255.255.255.0        |
| subnetAddress | Directory String | CasIgnoreString | No           | The IP address of the LSFsubnet   | 47.456.70.80         |

FIG. 6K

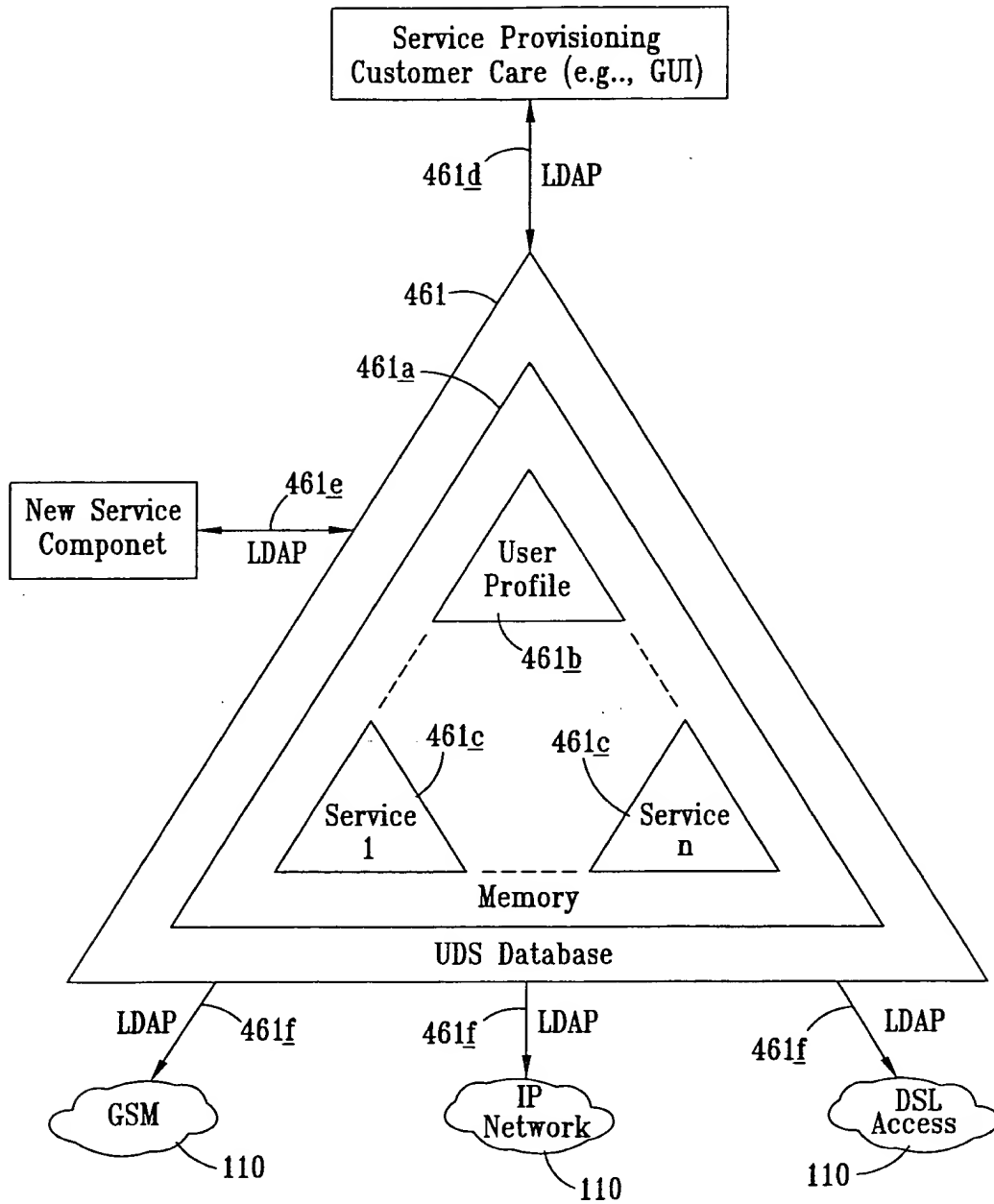
| Name          | Type             | MatchingRule    | Multi-Valued | Purpose   | Example              |
|---------------|------------------|-----------------|--------------|---|----------------------|
| cn            | Directory String | CasIgnoreString | No           | The common name for the ipmClassOfService   | ip10@nortelworks.com |
| description   | Directory String | CasIgnoreString | No           | The description for the ipmNsfSubnet  |                      |
| subnetMask    | Directory String | CasIgnoreString | No           | 32 bit value help the devices understand the limits or boundaries of the network and subnet | 255.255.255.0        |
| subnetAddress | Directory String | CasIgnoreString | No           | The IP address of the NSFsubnet   | 47.456.70.80         |



FIG. 6L

| Name            | Type             | MatchingRule     | Multi-Valued | Purpose  | Example  |
|-----------------|------------------|------------------|--------------|--|--|
| domainRealm     | Directory String | CaseIgnoreString | No           | Realm component of the IETF Network Access Identifier for the home network | John.Doe@ISPabc.com  |
| ipmLsfSubnetRef | DN               | DN               | Yes          | The reference of the LSFsubnet   | DN: "cn=ipmLsfSubnet, ou=ipm Management, o=nortelnetworks" |

FIG. 6M



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FIG. 7

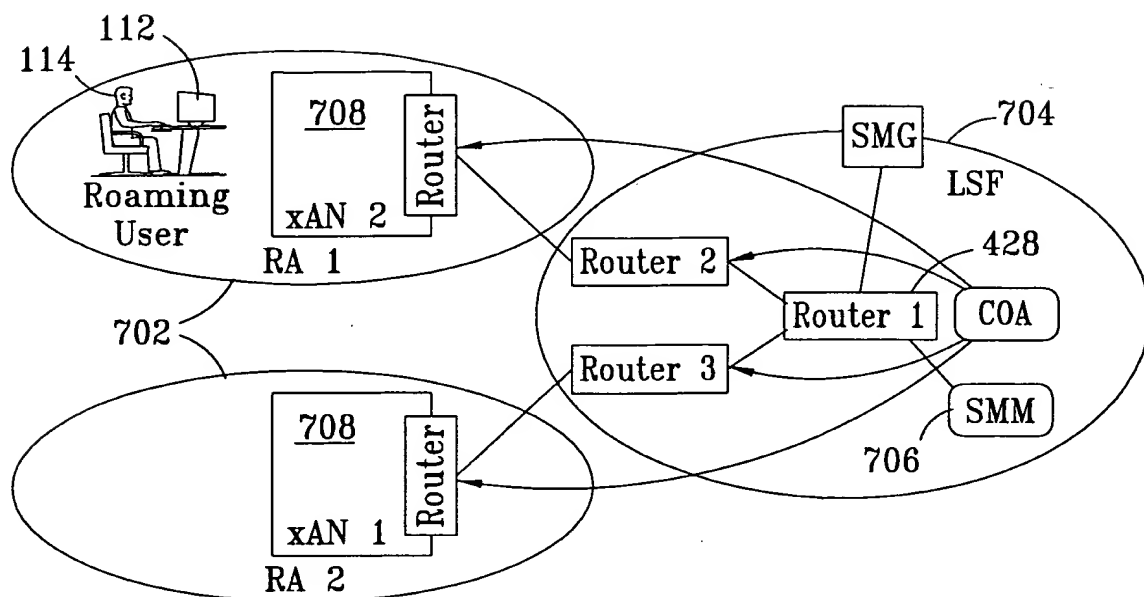
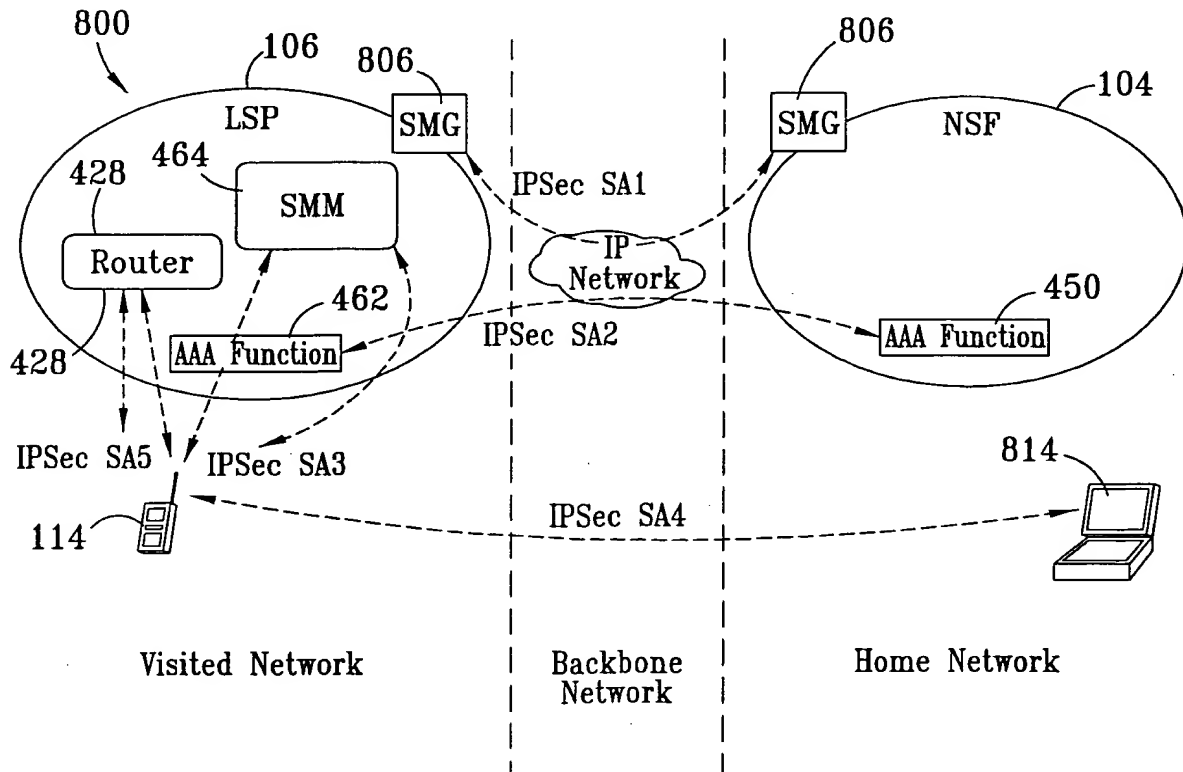


FIG. 8



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FIG. 9

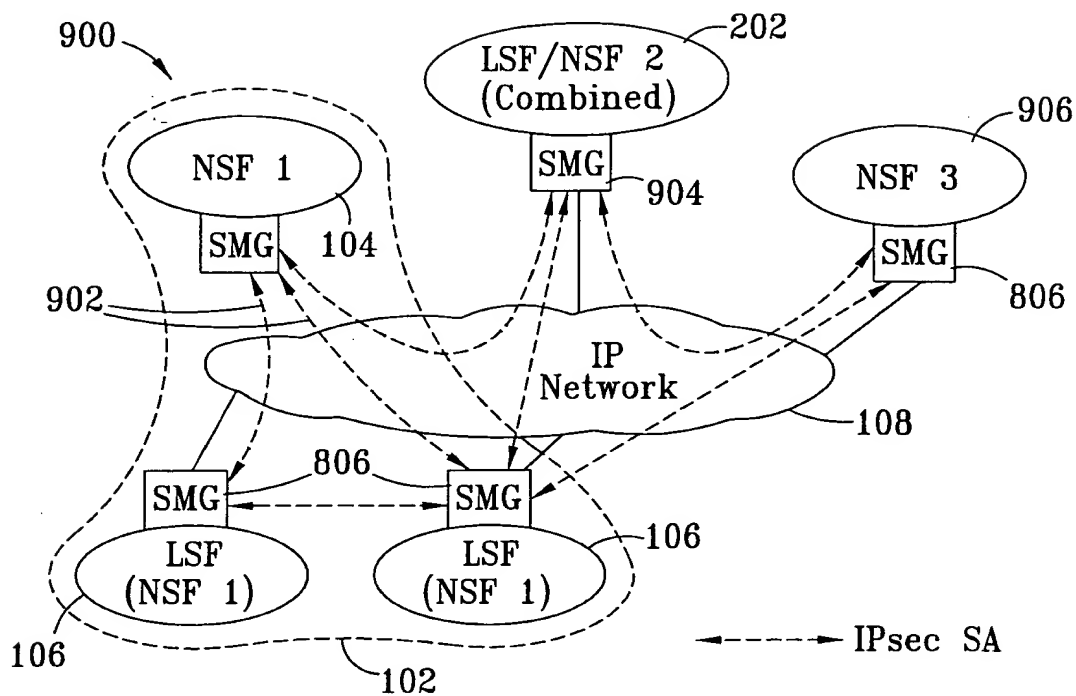
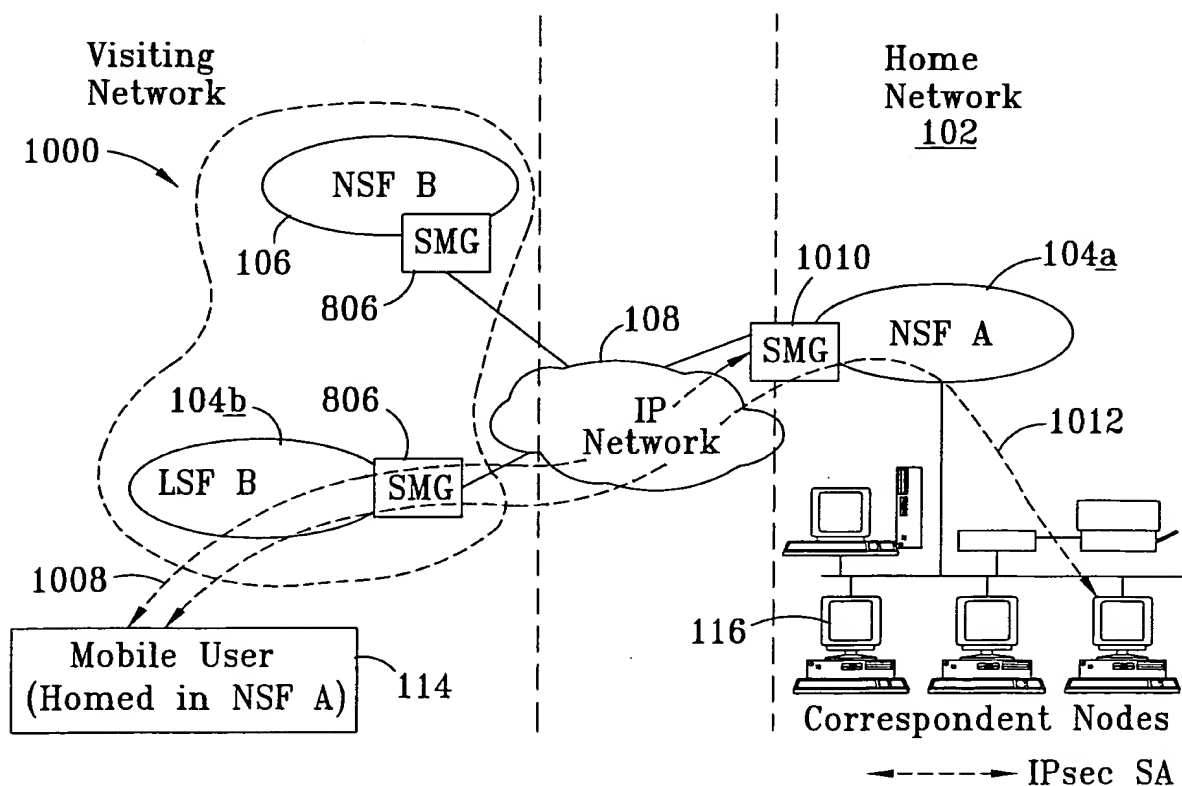
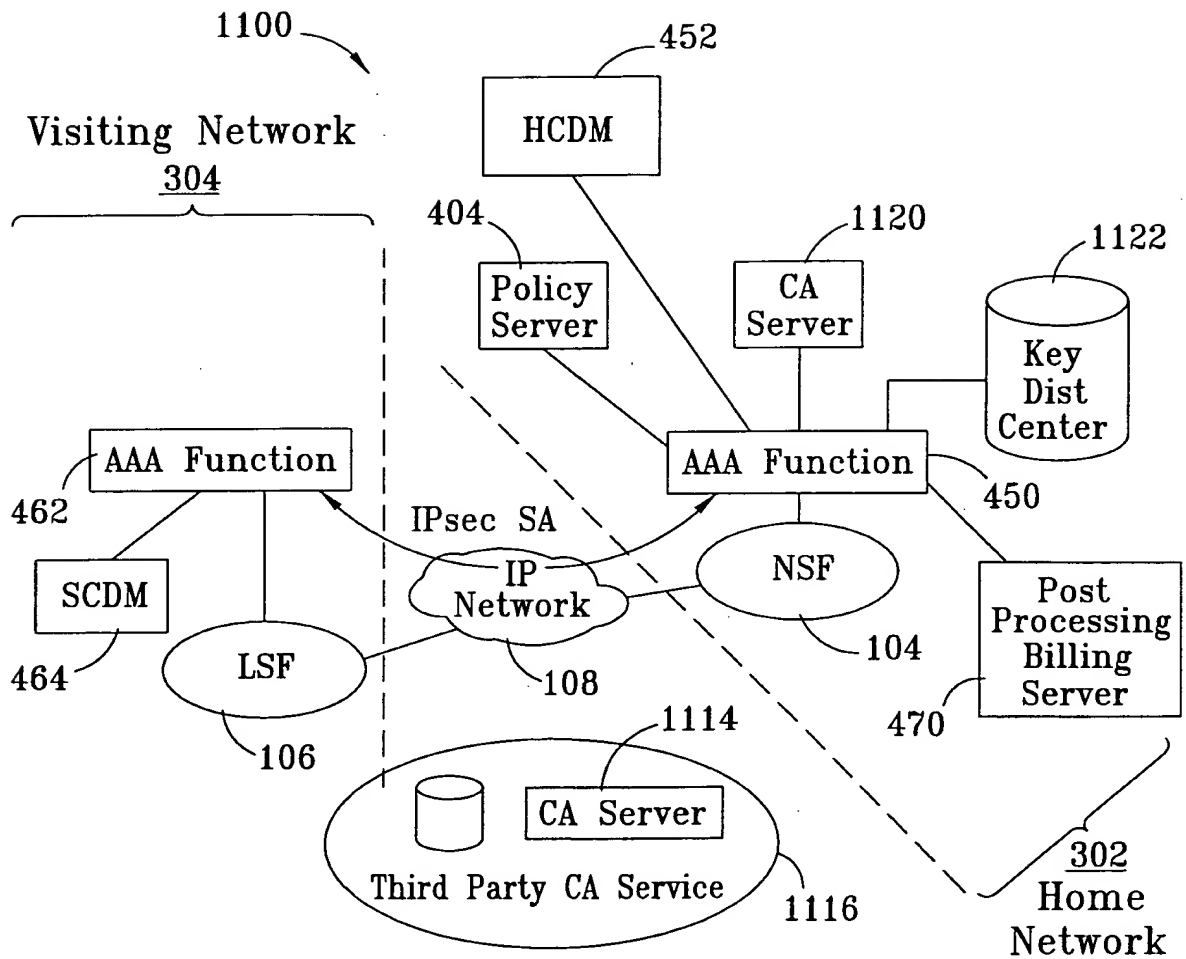


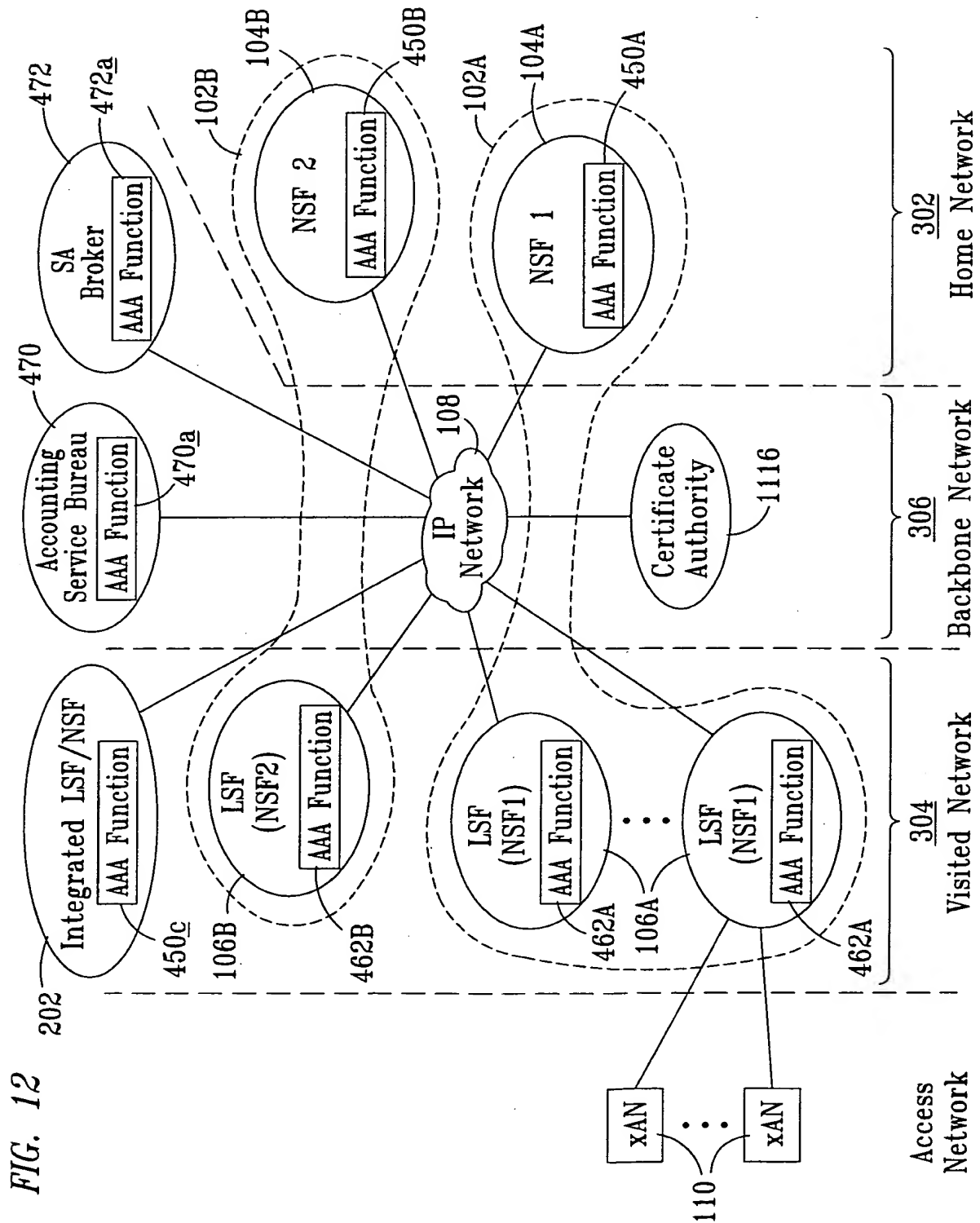
FIG. 10



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FIG. 11





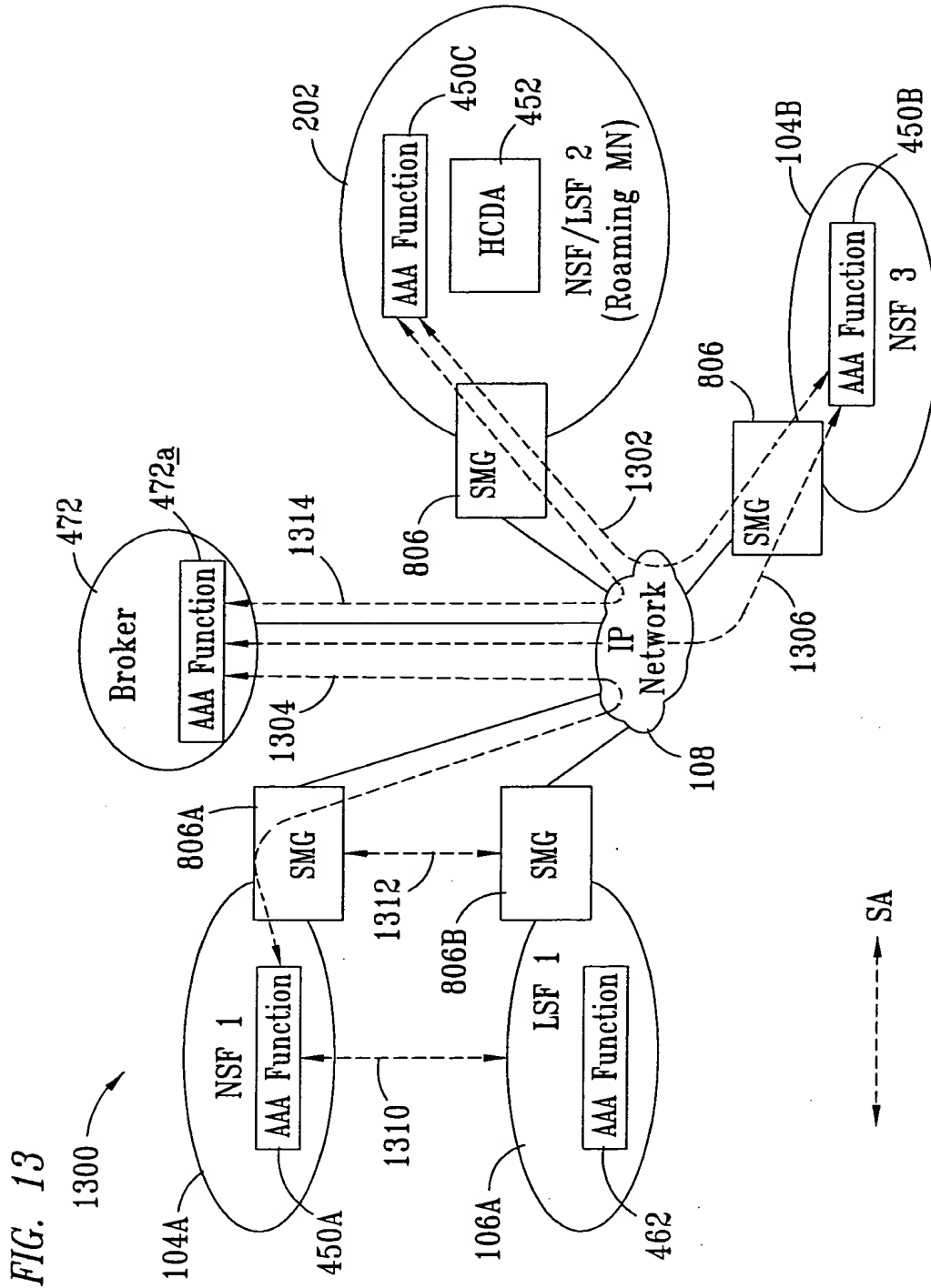


FIG. 13

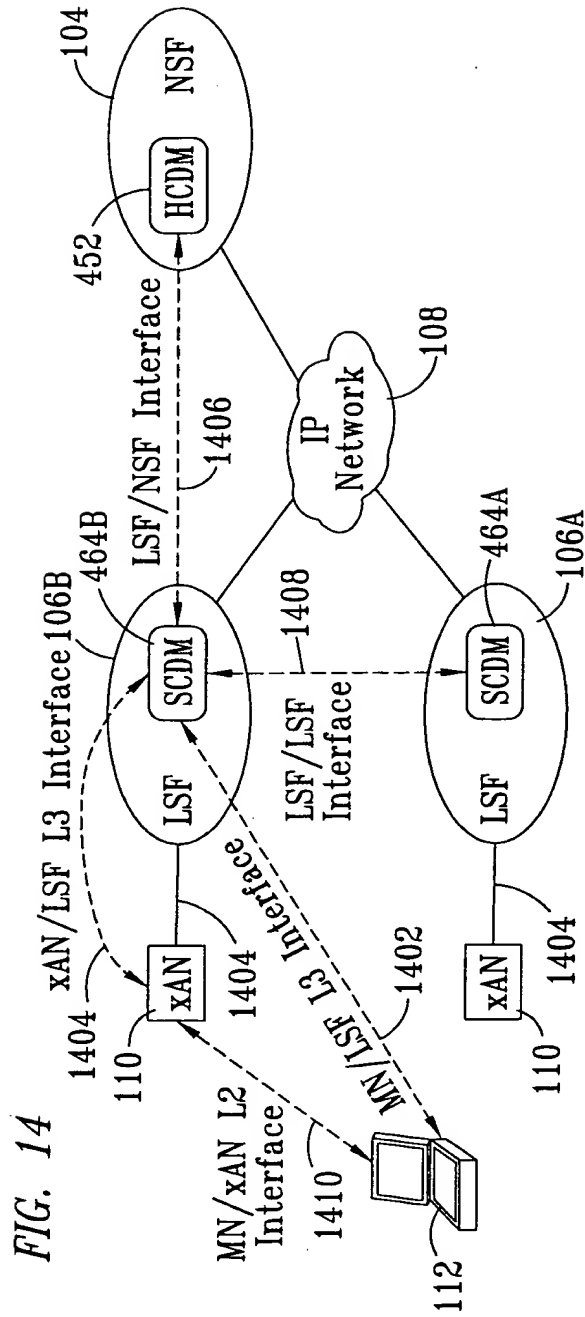
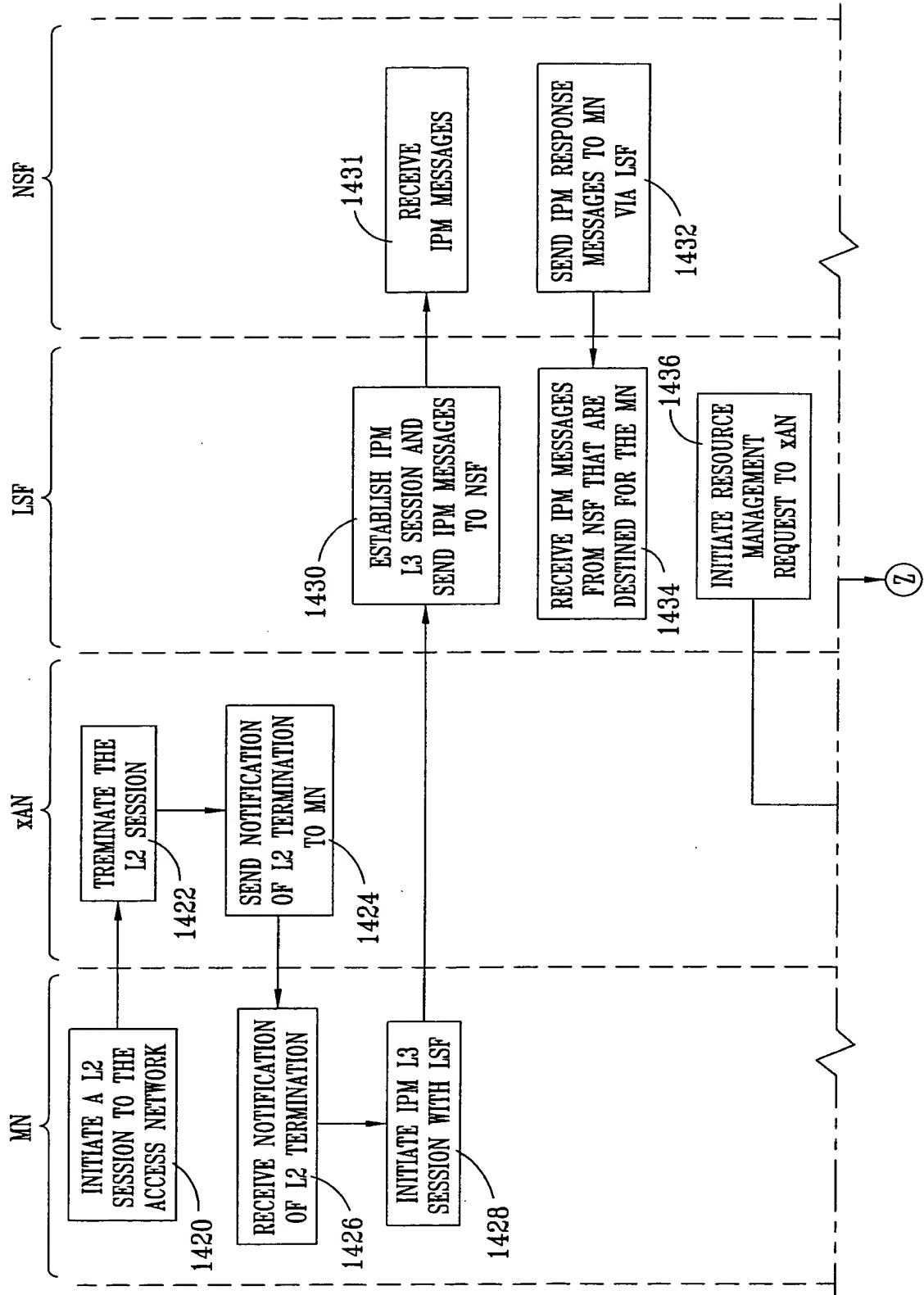
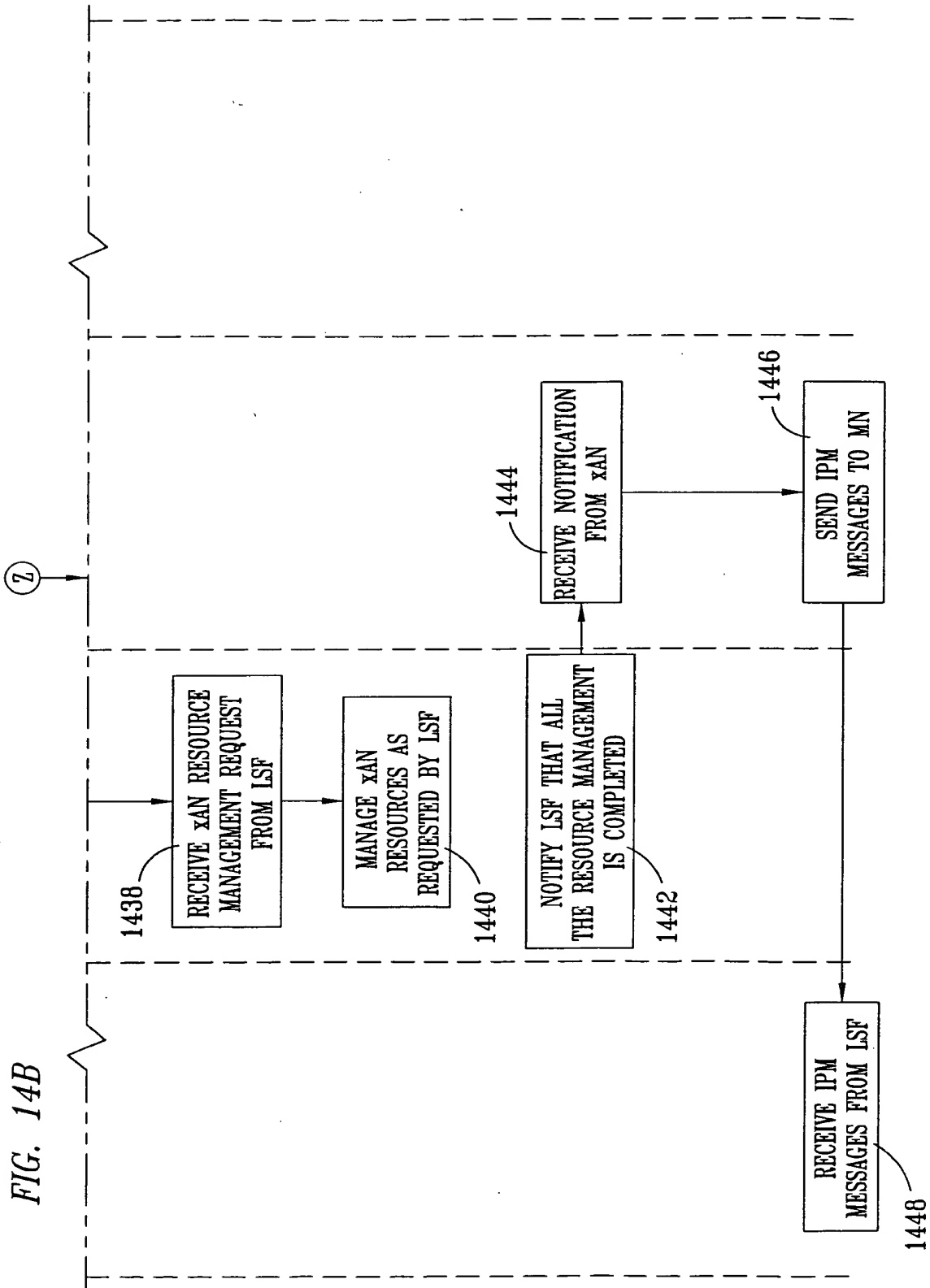


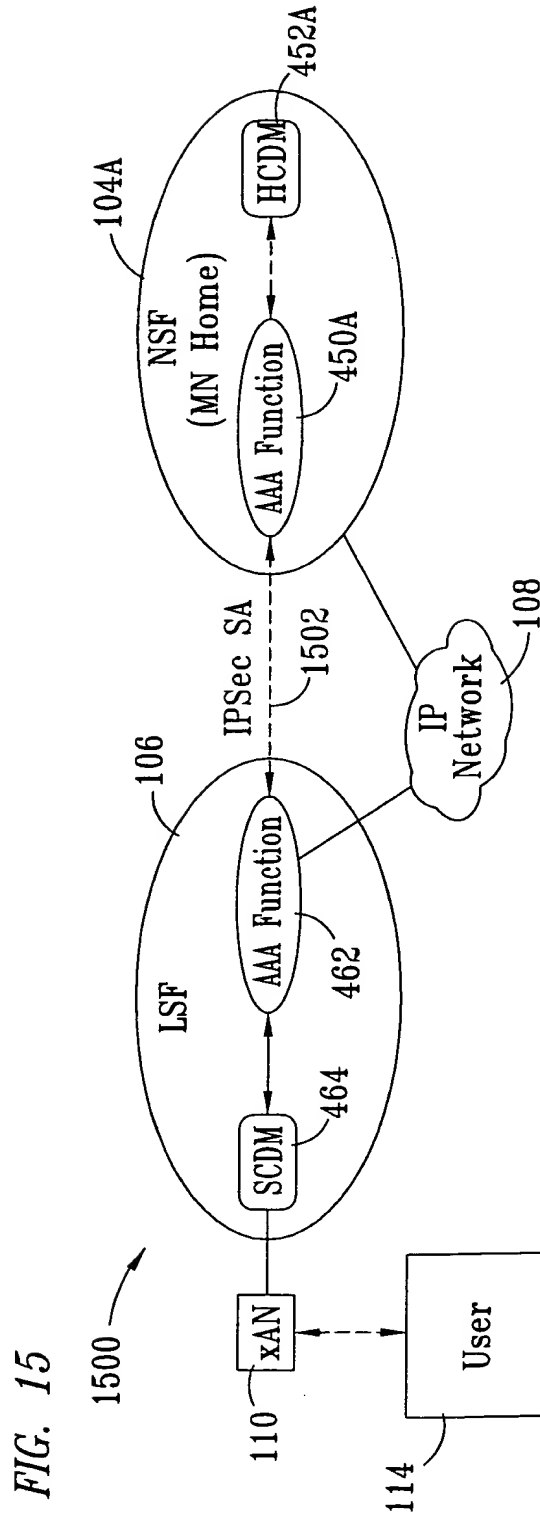


FIG. 14A



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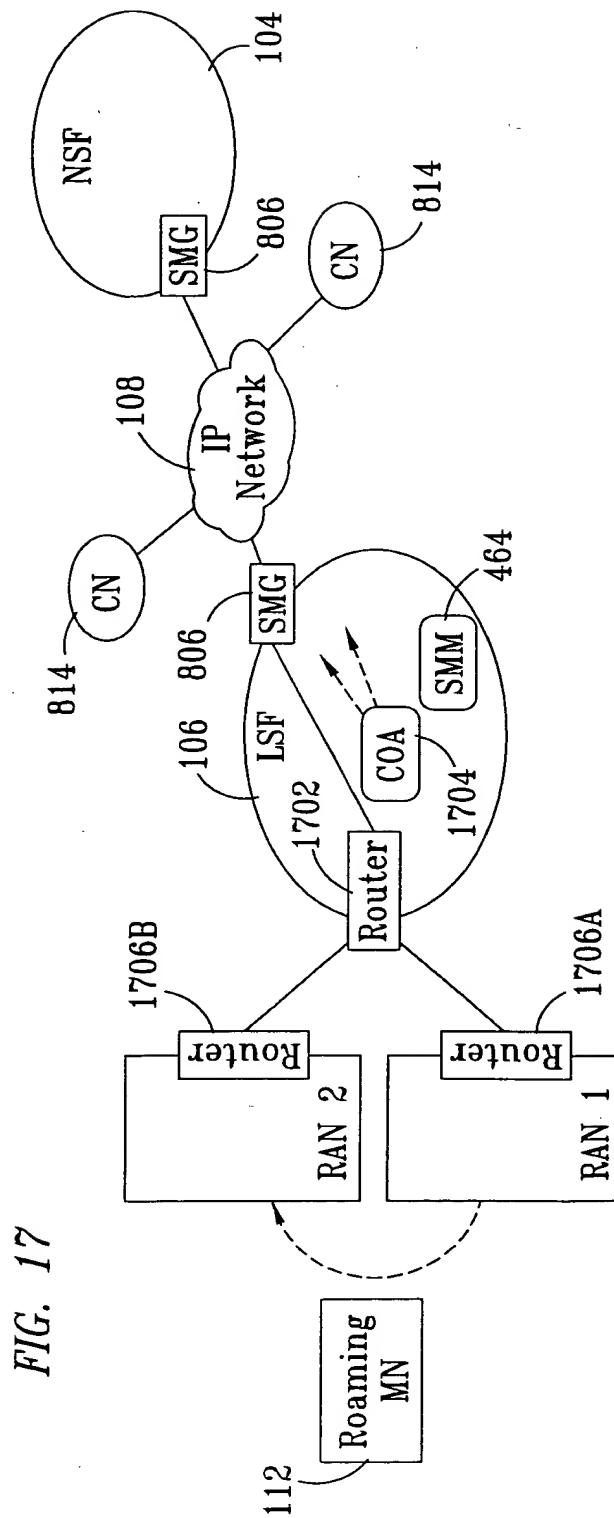
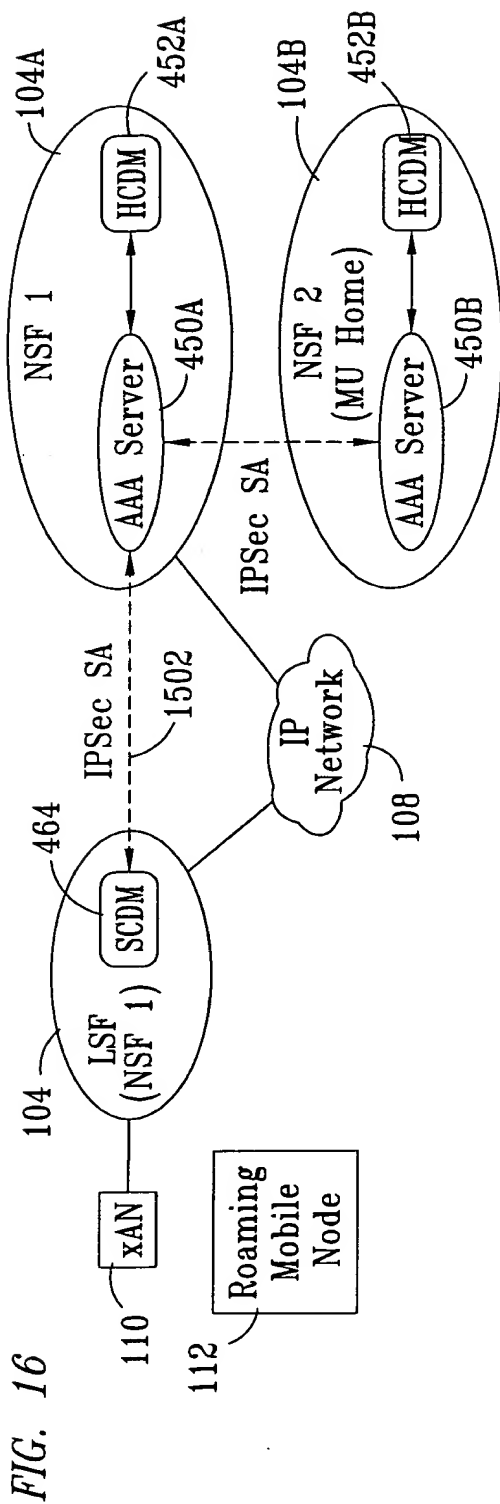


FIG. 18

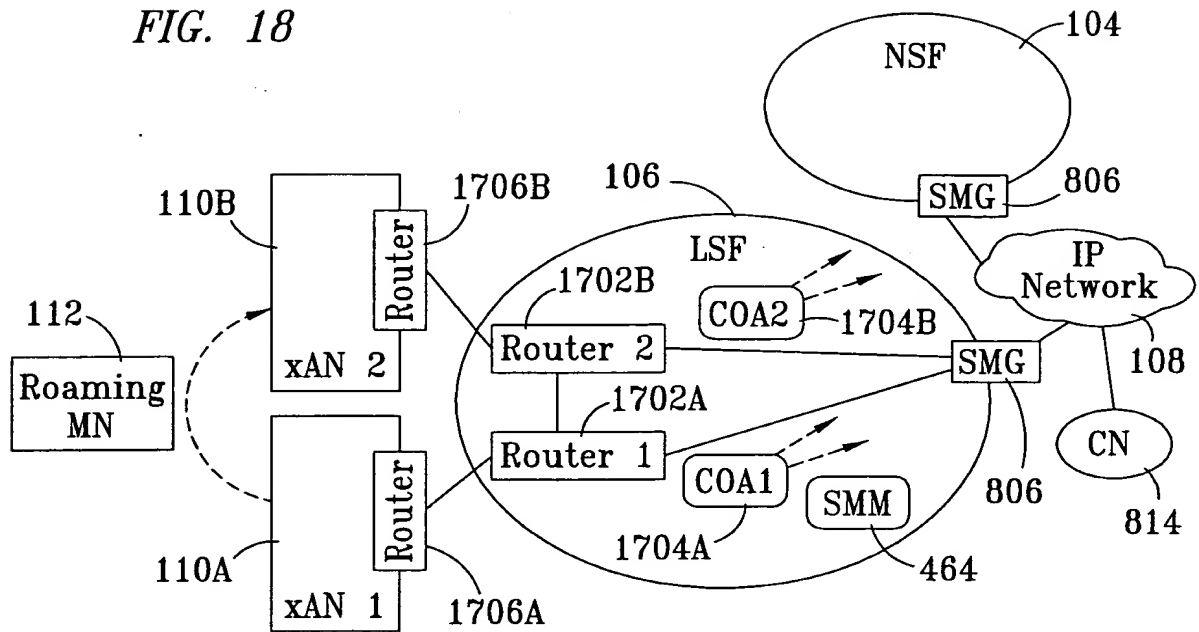


FIG. 19

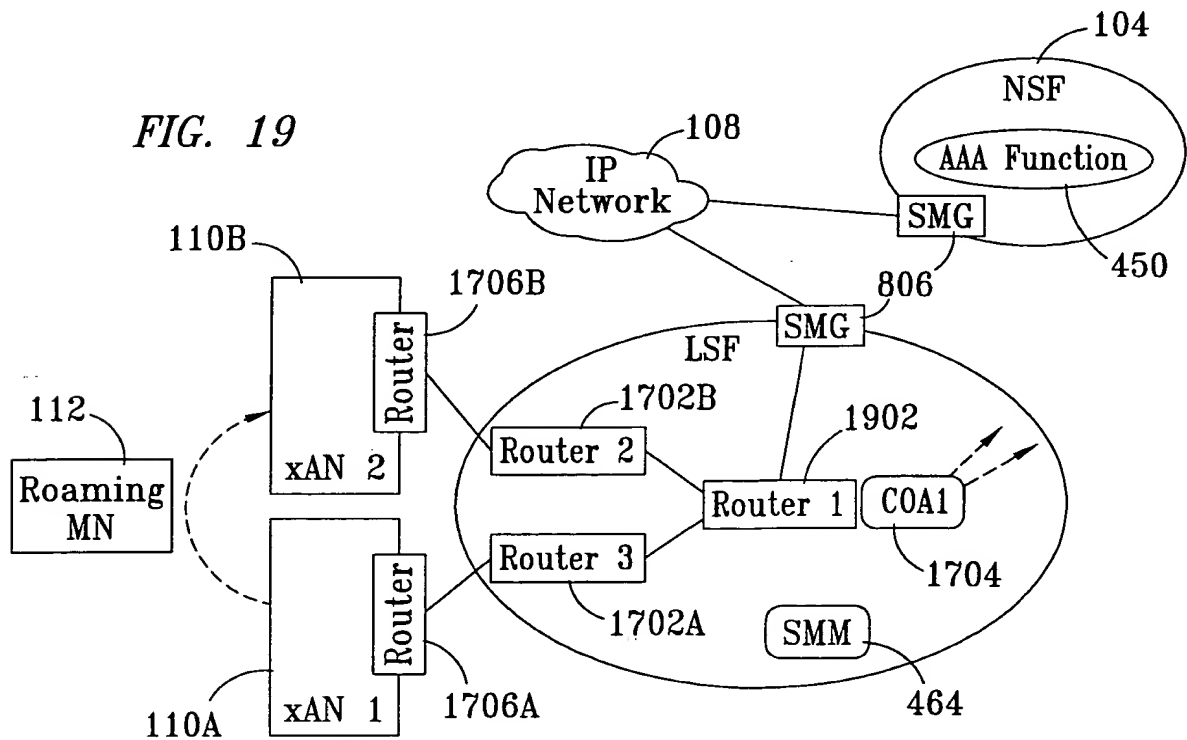
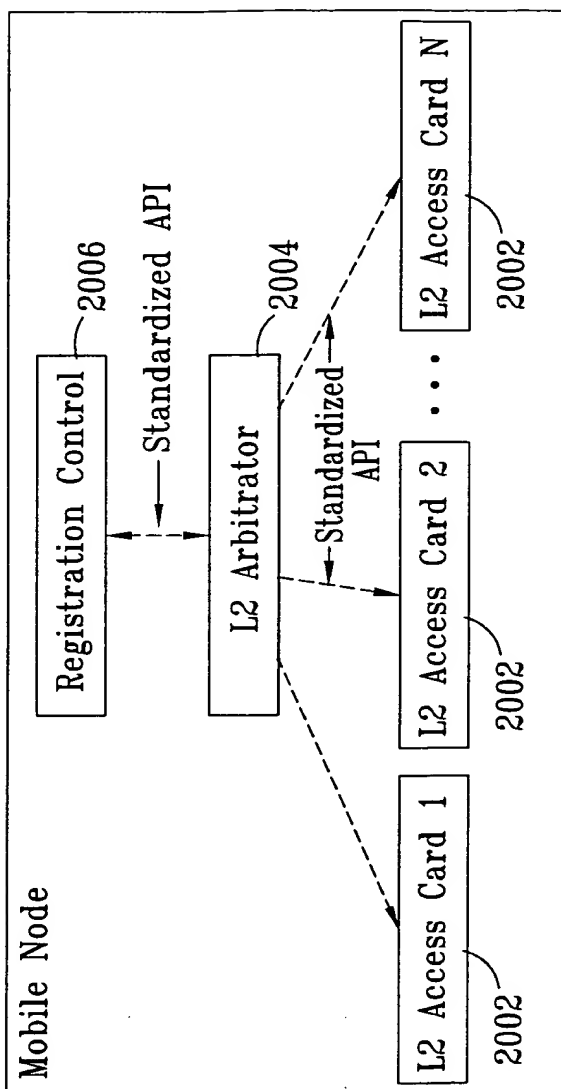


FIG. 20



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FIG. 20A

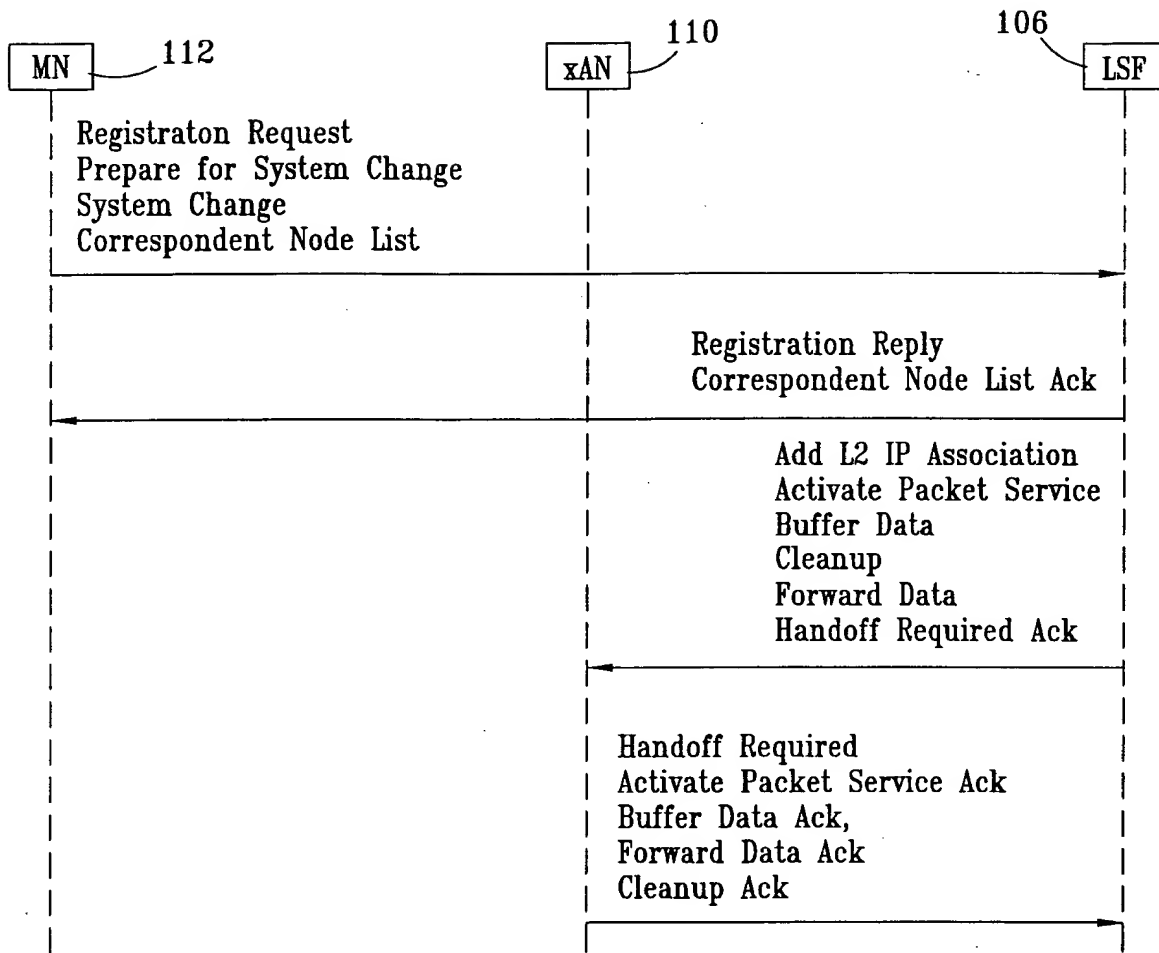


FIG. 20B

|   |
|---|
| IP Header                               |
| UDP Header                              |
| Existing MIP Message or new IPM Message |
| IPM Extension(s)                        |

Fig. 20C

|         |   |                |           |   |
|---------|---|----------------|-----------|---|
| Byte    | 0   | 1              | 2         | 3 |
| Off-set | 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 |                |           |   |
| 0       | Type  | Length (n/4+1) | Data..... |   |
| ..      | Data.....                                   |                |           |   |
| n       | Data.....                                   |                |           |   |

Fig. 20D

|         |   |              |                        |   |
|---------|---|--------------|------------------------|---|
| Byte    | 0   | 1            | 2                      | 3 |
| Off-set | 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 |              |                        |   |
| 0       | Type = 9                                    | Length (n-2) | Digital Signature..... |   |
| ..      | .....                                       |              |                        |   |
| n       | .....                                       |              | Digital Signature      |   |



Fig. 20E

|         |   |   |   |   |
|---------|---|---|---|---|
| Byte    | 0 | 1 | 2 | 3 |
| Off-set | 0 | 1 | 2 | 3 |
| 0       | 0 | 1 | 2 | 3 |
| ..      | 0 | 1 | 2 | 3 |
| n       | 0 | 1 | 2 | 3 |

Fig. 20F

|         |   |   |   |   |
|---------|---|---|---|---|
| Byte    | 0 | 1 | 2 | 3 |
| Off-set | 0 | 1 | 2 | 3 |
| 0       | 0 | 1 | 2 | 3 |
| ..      | 0 | 1 | 2 | 3 |
| n       | 0 | 1 | 2 | 3 |

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|         |   |              |              |   |
|---------|---|--------------|--------------|---|
| Byte    | 0   | 1            | 2            | 3 |
| Off-set | 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 |              |              |   |
| 0       | Type = 12                                   | Length (n-2) | LSF NAI..... |   |
| ..      | .....                                       |              |              |   |
| n       | .....LSF NAI                                |              |              |   |

**FIG. 20H**

|         |                    |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|--------|---|---|---|---|---|---|---|---|---|---|---|---|--------------------|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Byte    | 0                  | 1 |   |   |   |   |   |   |   |   |   |   |   |        | 2 |   |   |   |   |   |   |   |   |   |   |   |                    | 3 |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Off-set | 0                  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3      | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6                  | 7 | 8 | 9 | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0       | Type = 13          |   |   |   |   |   |   |   |   |   |   |   |   | Length |   |   |   |   |   |   |   |   |   |   |   |   | MN L2 Address..... |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ..      | .....              |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| n       | .....MN L2 Address |   |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |   |                    |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



FIG. 20K

|         |                        |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Byte    | 0                      | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | 3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Off-set | 0                      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6            | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0       | Type = 16              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | Length (n-2) |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | <Protocol Name 1> + <Protocol Name 2>+..... |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ..      | .....                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| n       | .....<Protocol Name n> |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



| Byte    | 0               | 1 |   |   |   |   |   |   |   | 2 |   |   |   |   |     |   |   | 3 |   |   |   |   |          |  |  |  |  |  |  |  |
|---------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|---|---|---|---|---|---|----------|--|--|--|--|--|--|--|
| Off-set | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4   | 5 | 6 | 7 | 8 | 9 | 0 | 1 |          |  |  |  |  |  |  |  |
| 0       | Type = 01       |   |   |   |   |   |   |   | S | B | D | M | G | V | Rsv |   |   |   |   |   |   |   | Lifetime |  |  |  |  |  |  |  |
| 4       | Home Address    |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |          |  |  |  |  |  |  |  |
| 8       | Home Agent      |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |          |  |  |  |  |  |  |  |
| 12      | Care-of Address |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |          |  |  |  |  |  |  |  |
| 16      | Identification  |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |          |  |  |  |  |  |  |  |
| 20      |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |          |  |  |  |  |  |  |  |
| 24+     | Extensions      |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |          |  |  |  |  |  |  |  |
|         | .....           |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |   |   |   |   |   |   |          |  |  |  |  |  |  |  |



|         |                |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------|----------------|---|---|---|---|---|---|---|---|------|---|---|---|---|---|---|---|---|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Byte    | 0              | 1 |   |   |   |   |   |   |   |      | 2 |   |   |   |   |   |   |   |          | 3 |   |   |   |   |   |   |   |   |   |   |   |   |
| Off-set | 0              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9    | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8        | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 |
| 0       | Type = 03      |   |   |   |   |   |   |   |   | Code |   |   |   |   |   |   |   |   | Lifetime |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4       | Home Address   |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 8       | Home Agent     |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 12      | Identification |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 16      |                |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 20+     | Extensions     |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |
|         | .....          |   |   |   |   |   |   |   |   |      |   |   |   |   |   |   |   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |



| Byte    | 0               |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |     | 2 |          |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |  |
|---------|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|---|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| Off-set | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5   | 6 | 7        | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 |  |
| 0       | Type = 30       |   |   |   |   |   |   |   | S |   | B | D | M | G | V | Rsv |   | Lifetime |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 4       | Home Address    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 8       | Home Agent      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 12      | Care-of Address |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 16      | Identification  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 20      |                 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 24+     | Extensions      |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|         | .....           |   |   |   |   |   |   |   |   |   |   |   |   |   |   |     |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |





FIG. 20P

|         |   |   |   |   |
|---------|---|---|---|---|
| Byte    | 0 | 1 | 2 | 3 |
| Off-set | 0 | 1 | 2 | 3 |
| 0       | 0 | 1 | 2 | 3 |
| ..      | 0 | 1 | 2 | 3 |
| n       | 0 | 1 | 2 | 3 |

FIG. 20Q

|         |   |   |   |   |
|---------|---|---|---|---|
| Byte    | 0 | 1 | 2 | 3 |
| Off-set | 0 | 1 | 2 | 3 |
| 0       | 0 | 1 | 2 | 3 |
| 4+      | 0 | 1 | 2 | 3 |



FIG. 20T

|         |                 |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|-----------------|---|---|---|---|---|---|---|---|---|---|---|--------|---|---|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Byte    | 0               | 1 |   |   |   |   |   |   |   |   |   |   |        | 2 |   |   |   |   |   |   |   |   |   |   |          | 3 |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Off-set | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2      | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4        | 5 | 6 | 7 | 8 | 9 | 0 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0       | Type = 42       |   |   |   |   |   |   |   |   |   |   |   | Length |   |   |   |   |   |   |   |   |   |   |   | Reserved |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4       | User IP Address |   |   |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

FIG. 20U

|         |                 |   |   |   |        |   |   |             |   |   |          |   |
|---------|-----------------|---|---|---|--------|---|---|-------------|---|---|----------|---|
| Byte    | 0               | 1 |   |   | 2      |   |   | 3           |   |   |          |   |
| Off-set | 0               | 1 | 2 | 3 | 4      | 5 | 6 | 7           | 8 | 9 | 0        | 1 |
| 0       | Type = 43       |   |   |   | Length |   |   | Result Code |   |   | Reserved |   |
| 4       | User IP Address |   |   |   |        |   |   |             |   |   |          |   |

**FIG. 20V**

|         |                 |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---------|-----------------|---|---|---|---|---|---|---|---|---|--------|---|---|---|---|---|---|---|---|---|----------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Byte    | 0               | 1 |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   | 2 |   |   |          |   |   |   |   |   |   |   |   |   |   |   |   | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| Off-set | 0               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0        | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 |
| 0       | Type = 44       |   |   |   |   |   |   |   |   |   | Length |   |   |   |   |   |   |   |   |   | Reserved |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 4       | User IP Address |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |



FIG. 20Y

|         |           |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |          |   |  |  |  |  |  |  |  |  |  |
|---------|-----------|---|---|---|---|---|---|---|---|---|--------|---|---|---|---|---|---|---|---|---|----------|---|--|--|--|--|--|--|--|--|--|
| Byte    | 0         | 1 |   |   |   |   |   |   |   |   |        | 2 |   |   |   |   |   |   |   |   |          | 3 |  |  |  |  |  |  |  |  |  |
| Off-set | 0         | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0        | 1 |  |  |  |  |  |  |  |  |  |
| 0       | Type = 47 |   |   |   |   |   |   |   |   |   | Length |   |   |   |   |   |   |   |   |   | Reserved |   |  |  |  |  |  |  |  |  |  |
| 4       | User NAI  |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |          |   |  |  |  |  |  |  |  |  |  |

FIG. 20Z

|         |                                  |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |          |   |  |  |  |  |  |  |  |  |  |
|---------|----------------------------------|---|---|---|---|---|---|---|---|---|--------|---|---|---|---|---|---|---|---|---|----------|---|--|--|--|--|--|--|--|--|--|
| Byte    | 0                                | 1 |   |   |   |   |   |   |   |   |        | 2 |   |   |   |   |   |   |   |   |          | 3 |  |  |  |  |  |  |  |  |  |
| Off-set | 0                                | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0        | 1 |  |  |  |  |  |  |  |  |  |
| 0       | Type = 48                        |   |   |   |   |   |   |   |   |   | Length |   |   |   |   |   |   |   |   |   | Reserved |   |  |  |  |  |  |  |  |  |  |
| 4       | User's IP Address at the old LSF |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |          |   |  |  |  |  |  |  |  |  |  |
| 8       | User's IP Address at the new LSF |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |          |   |  |  |  |  |  |  |  |  |  |
| 12      | User's COA at the new LSF        |   |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |   |          |   |  |  |  |  |  |  |  |  |  |



FIG. 20AC

|            |   |   |   |   |
|------------|---|---|---|---|
| Byte       | 0 | 1 | 2 | 3 |
| Off-set    | 0 | 1 | 2 | 3 |
| 0          | 0 | 1 | 2 | 3 |
| 4+         | 0 | 1 | 2 | 3 |
| Extensions |   |   |   |   |
| .....      |   |   |   |   |

FIG. 20AD

|                |   |   |   |   |
|----------------|---|---|---|---|
| Byte           | 0 | 1 | 2 | 3 |
| Off-set        | 0 | 1 | 2 | 3 |
| 0              | 0 | 1 | 2 | 3 |
| 4              | 0 | 1 | 2 | 3 |
| Access Request |   |   |   |   |

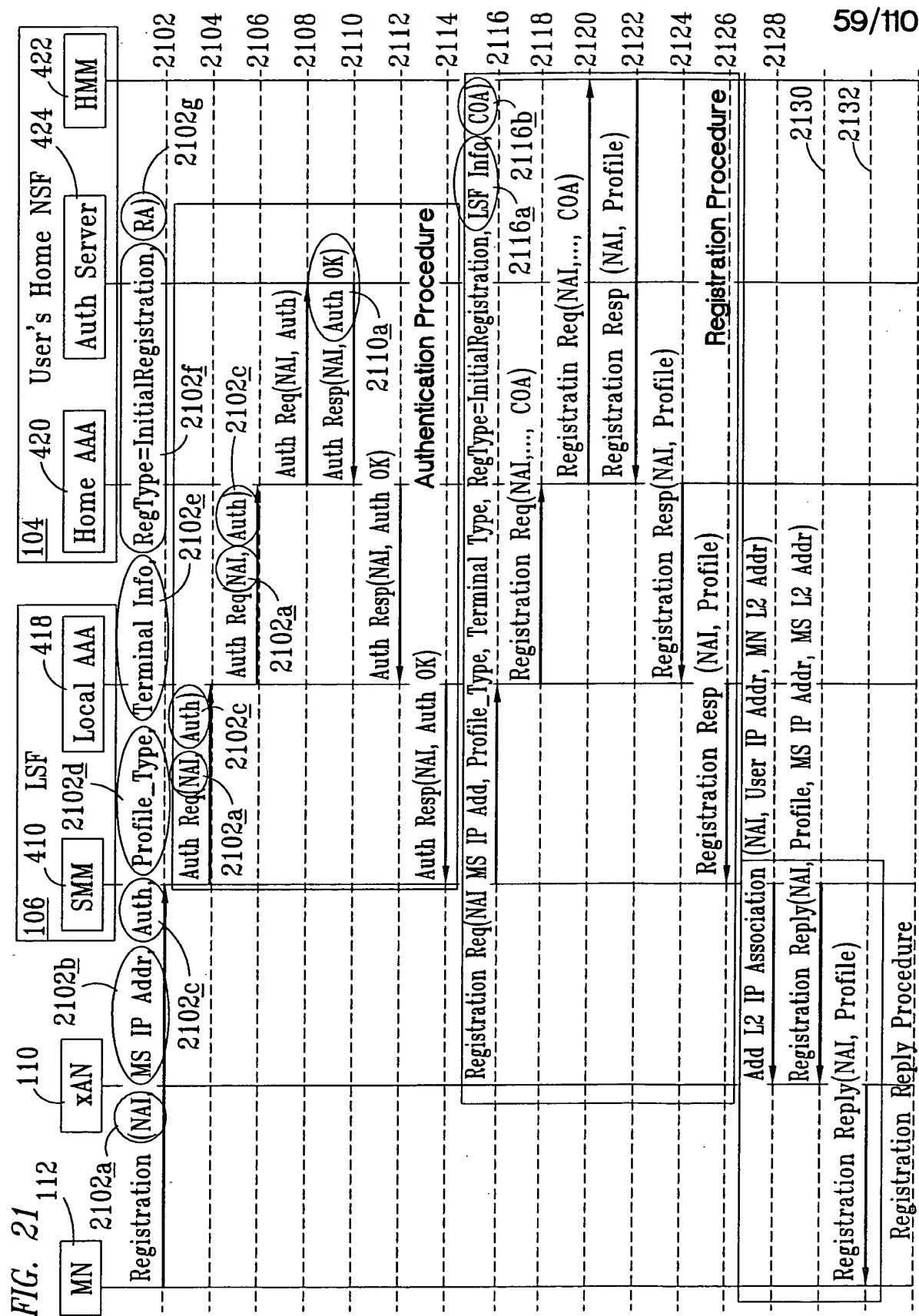
FIG. 20AE

|         |   |        |          |   |
|---------|---|--------|----------|---|
| Byte    | 0   | 1      | 2        | 3 |
| Off-set | 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 |        |          |   |
| 0       | Type = 31                                   | Length | Reserved |   |
| 4       | Access Accept/Reject                        |        |          |   |









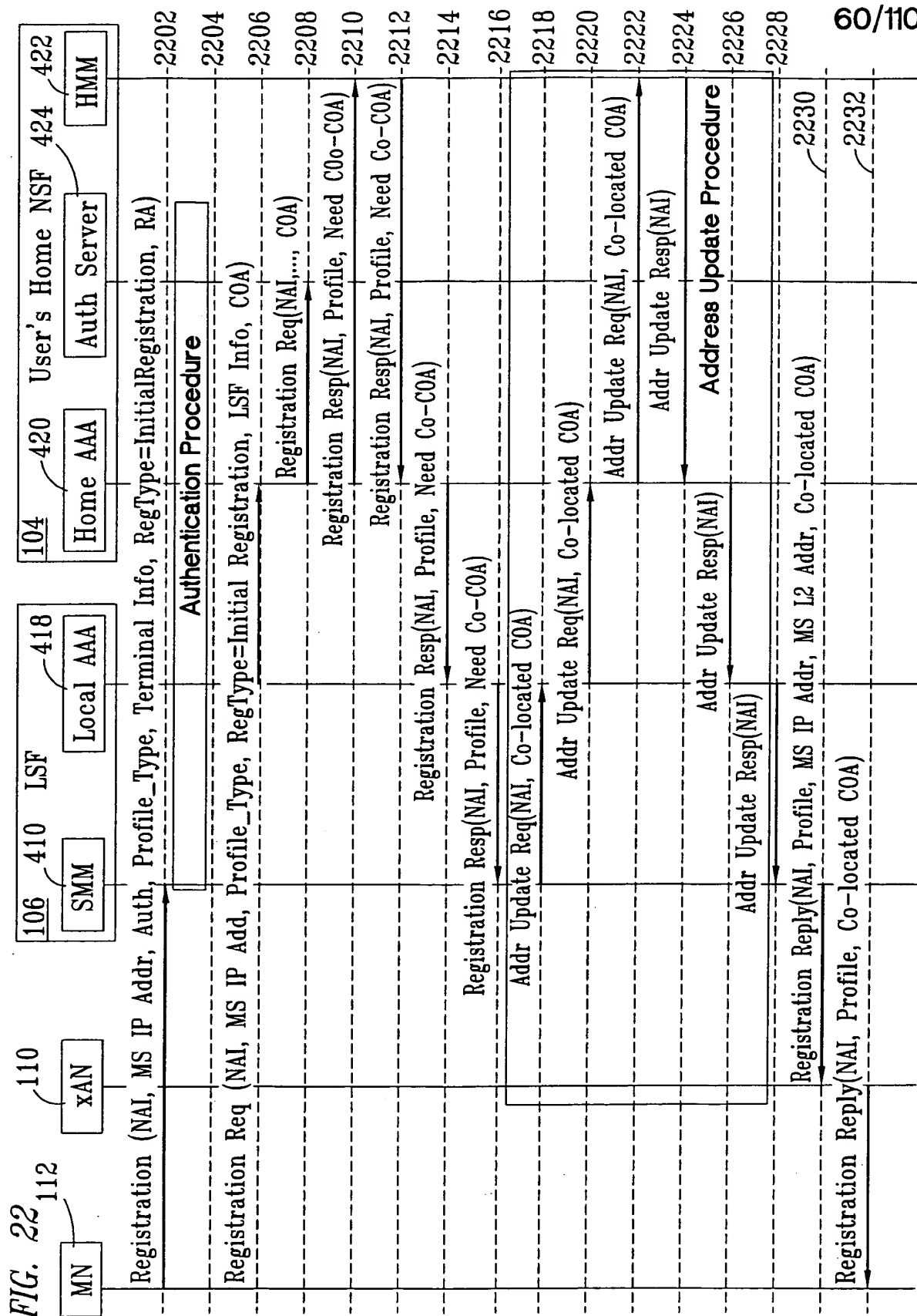
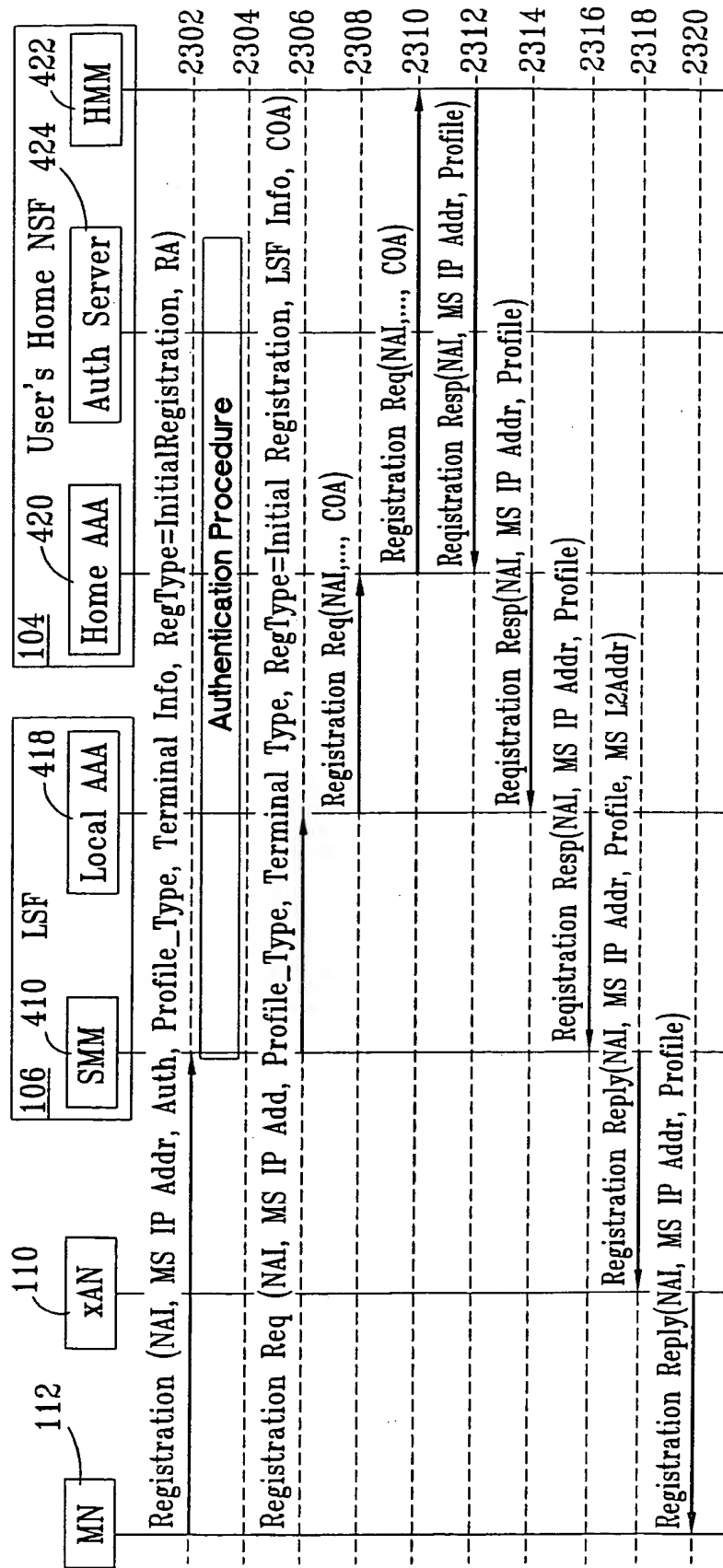


FIG. 23



2025 RELEASE UNDER E.O. 14176

FIG. 24

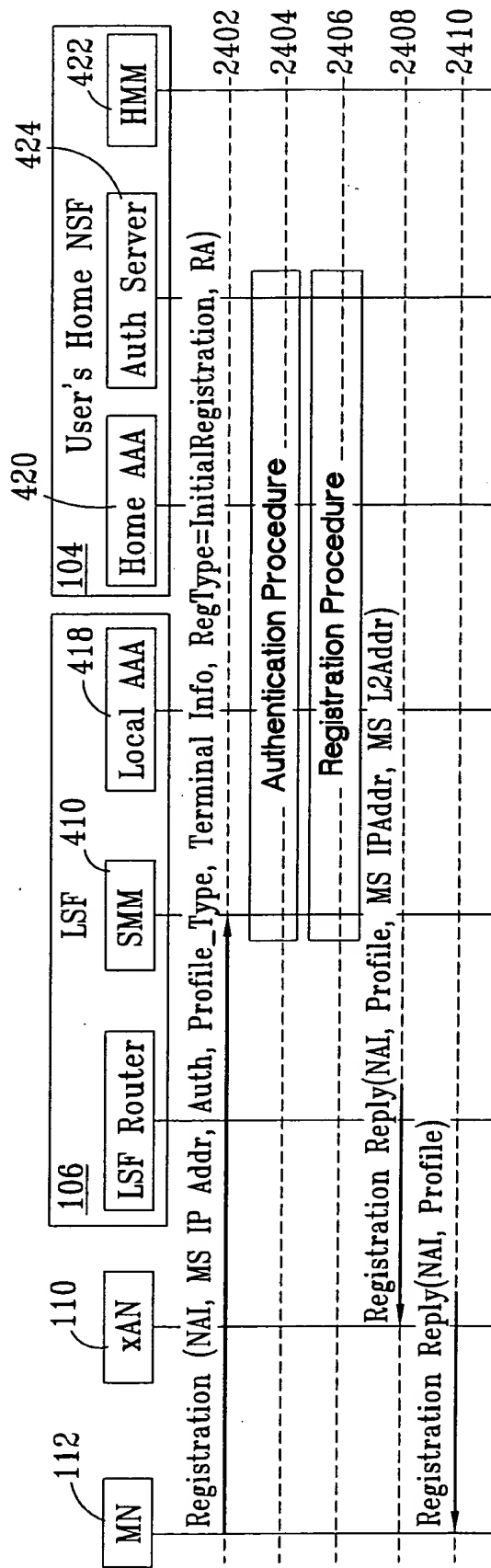


FIG. 25A

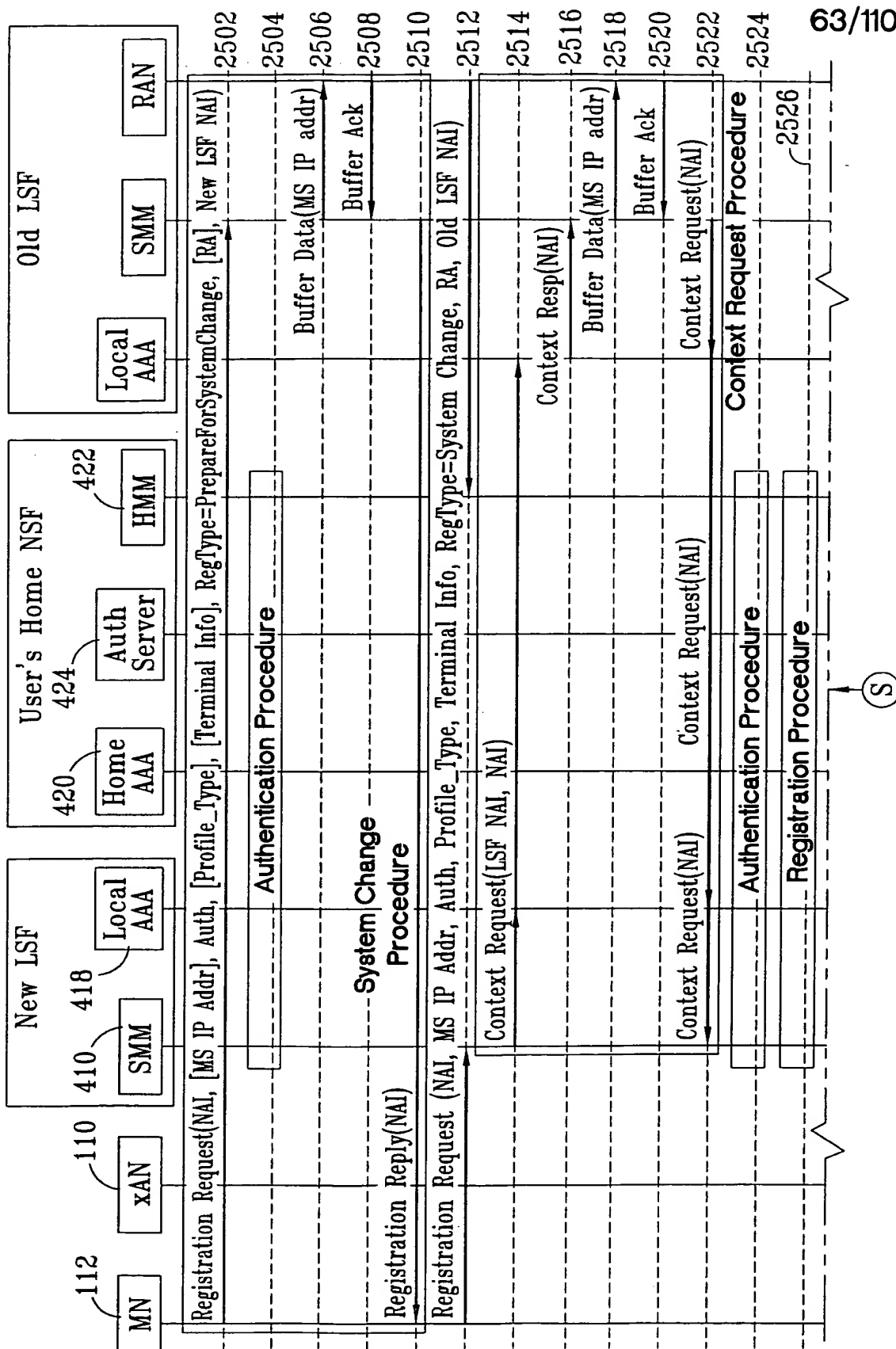
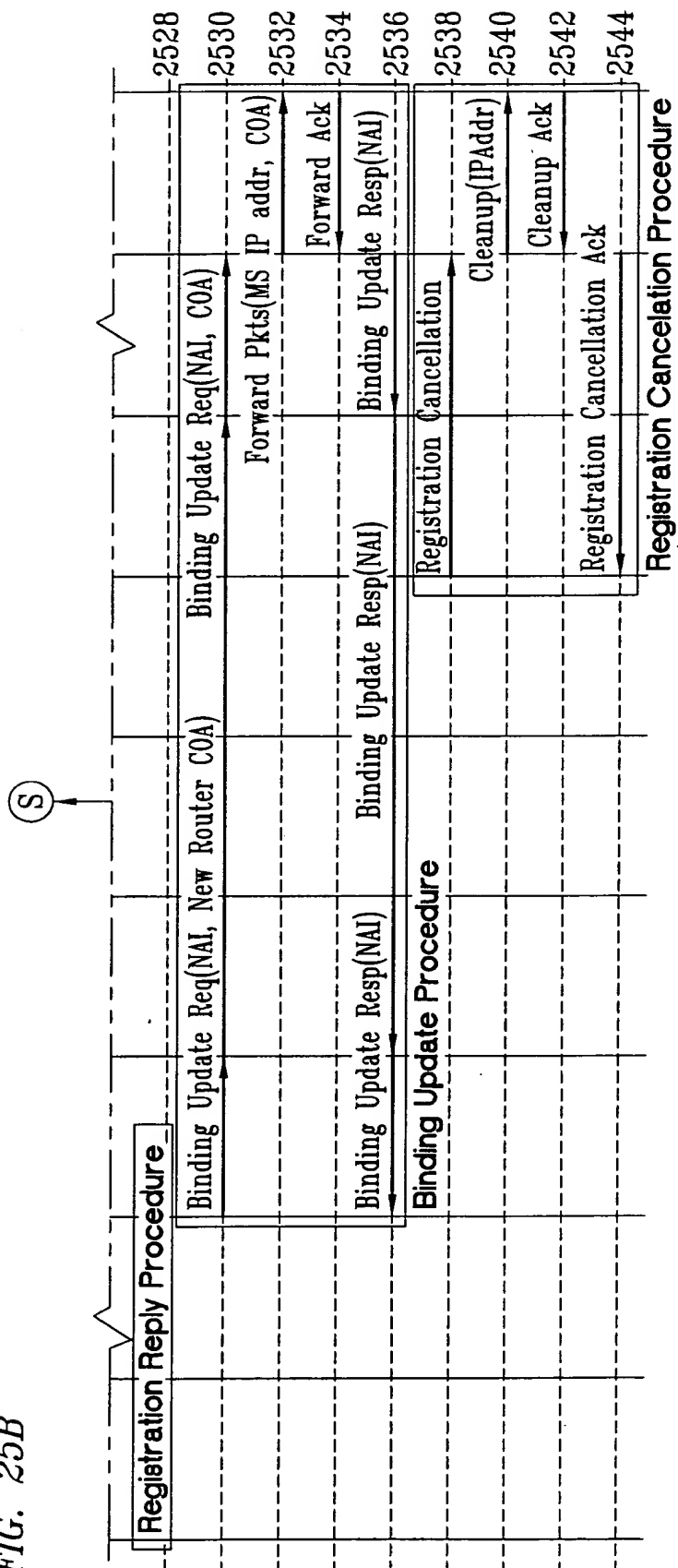


FIG. 25B





2025 RELEASE UNDER E.O. 14176

FIG. 26

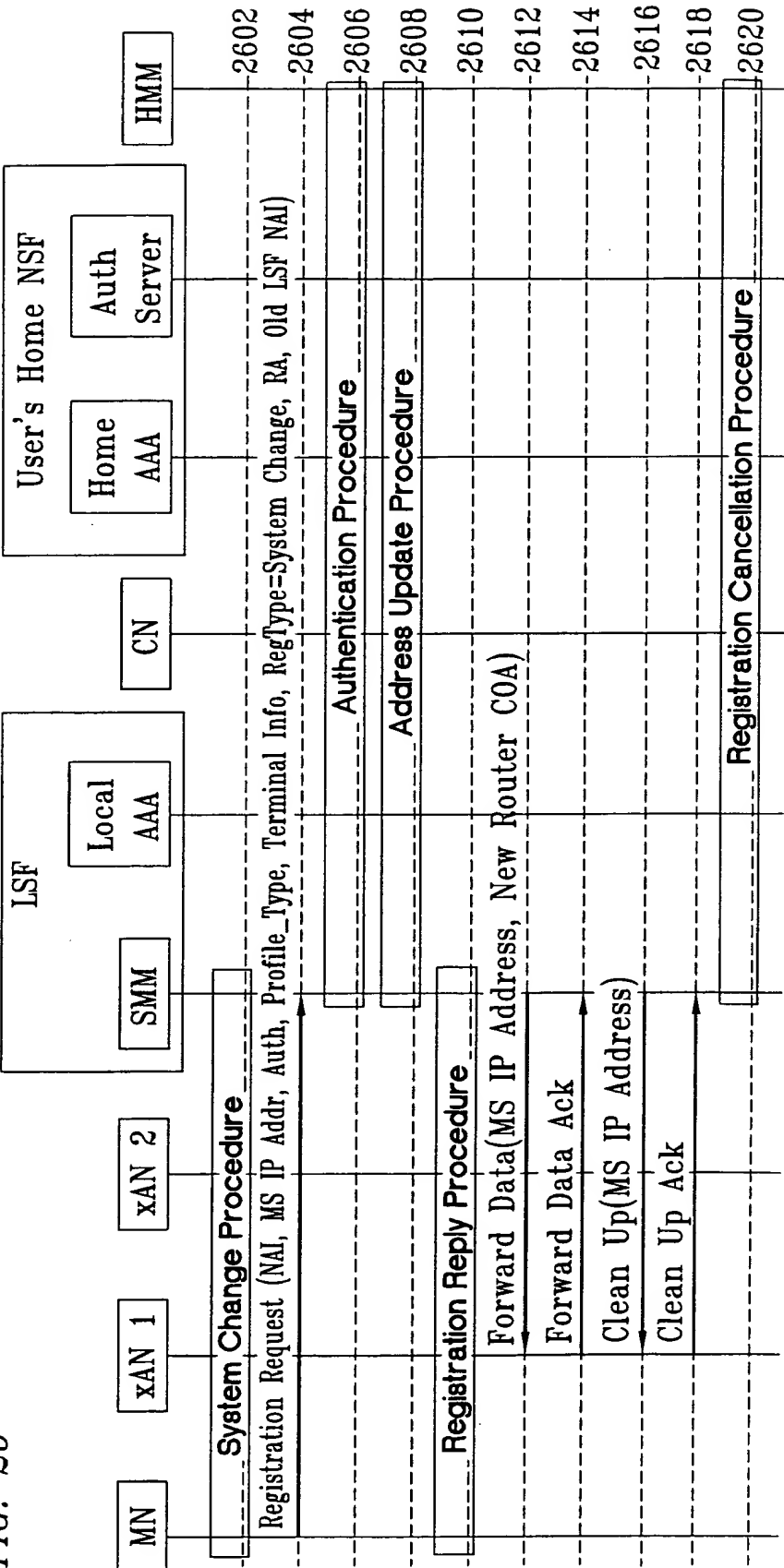
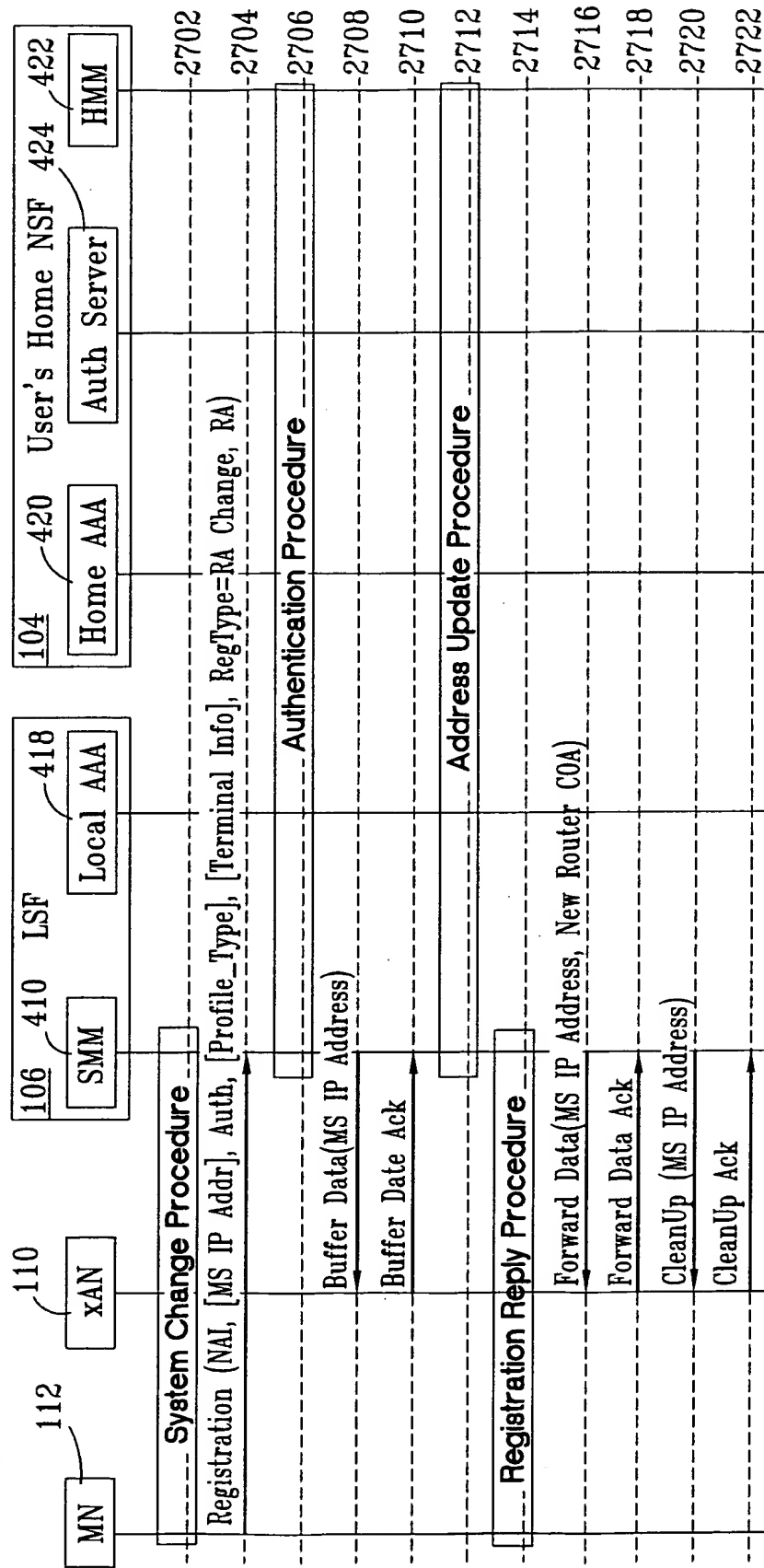


FIG. 27



2025 RELEASE UNDER E.O. 14176

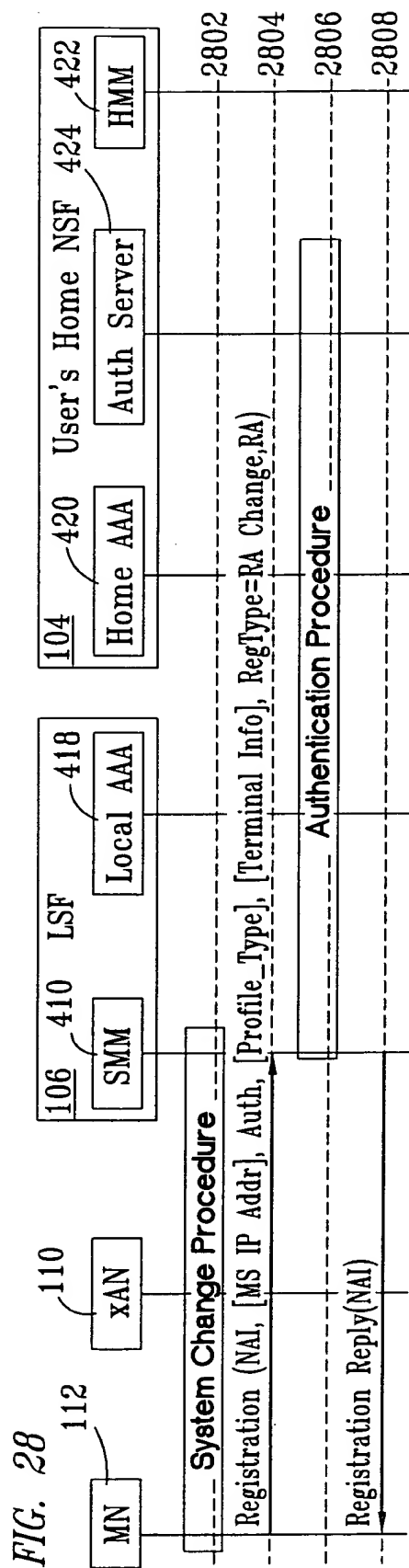


FIG. 29

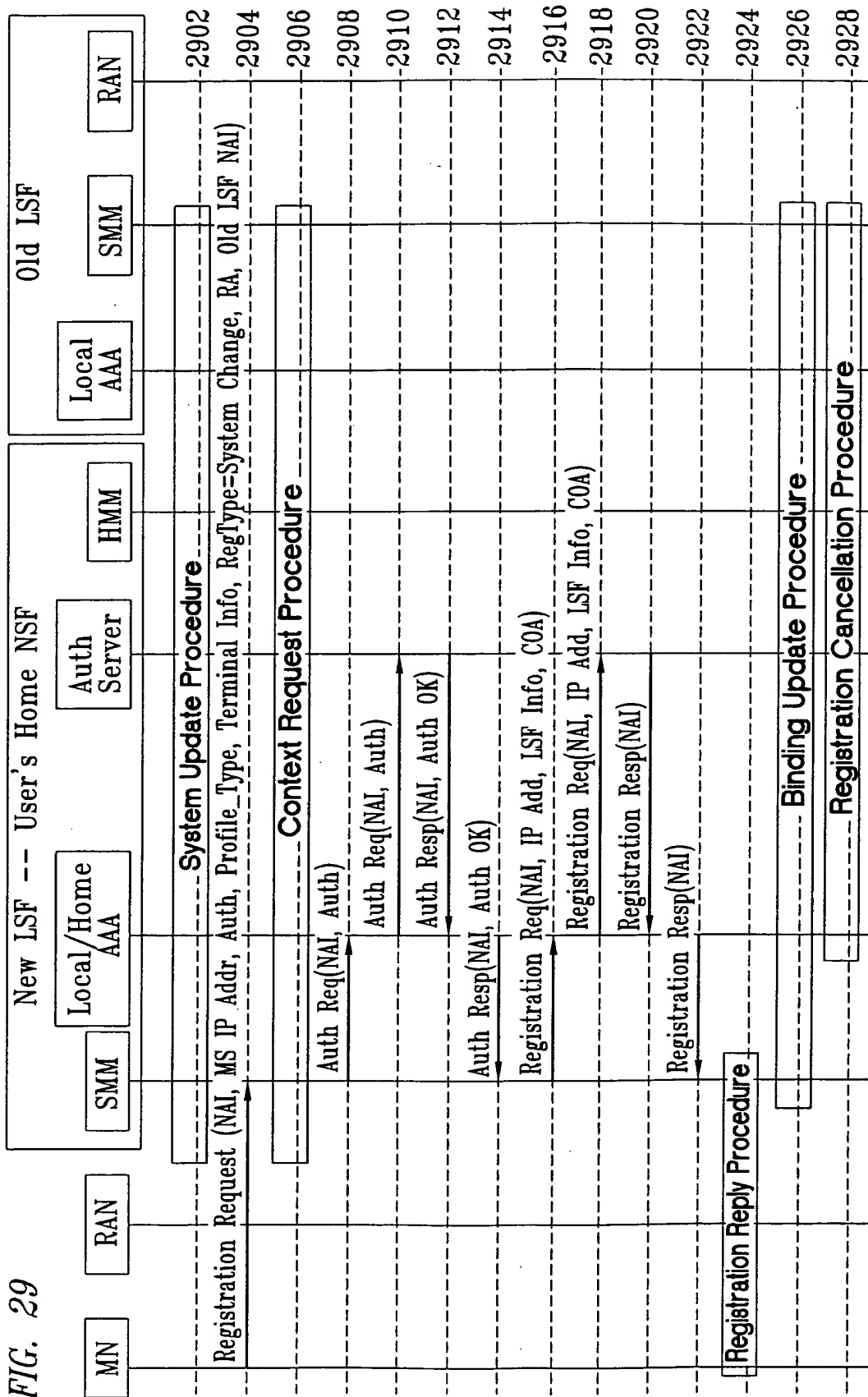




FIG. 31

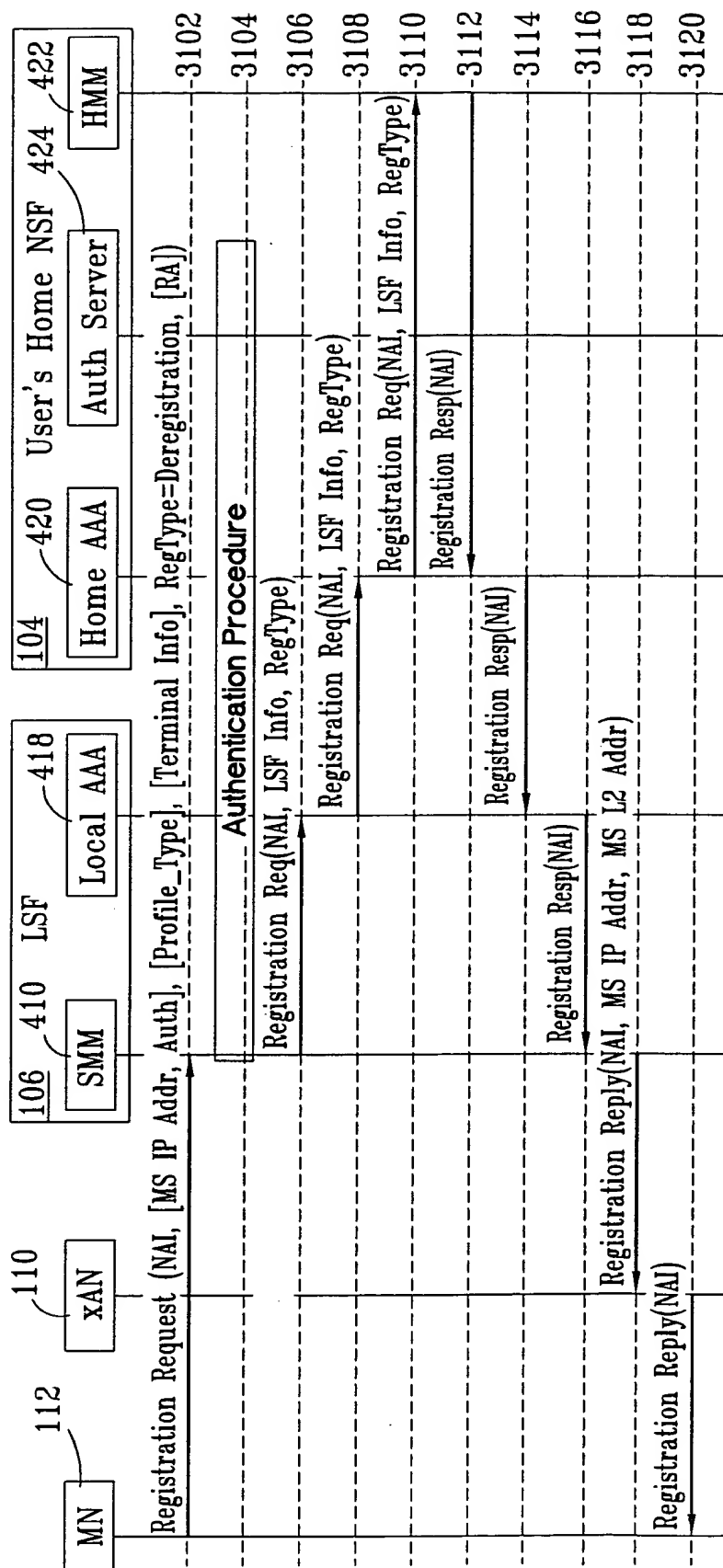


FIG. 32A

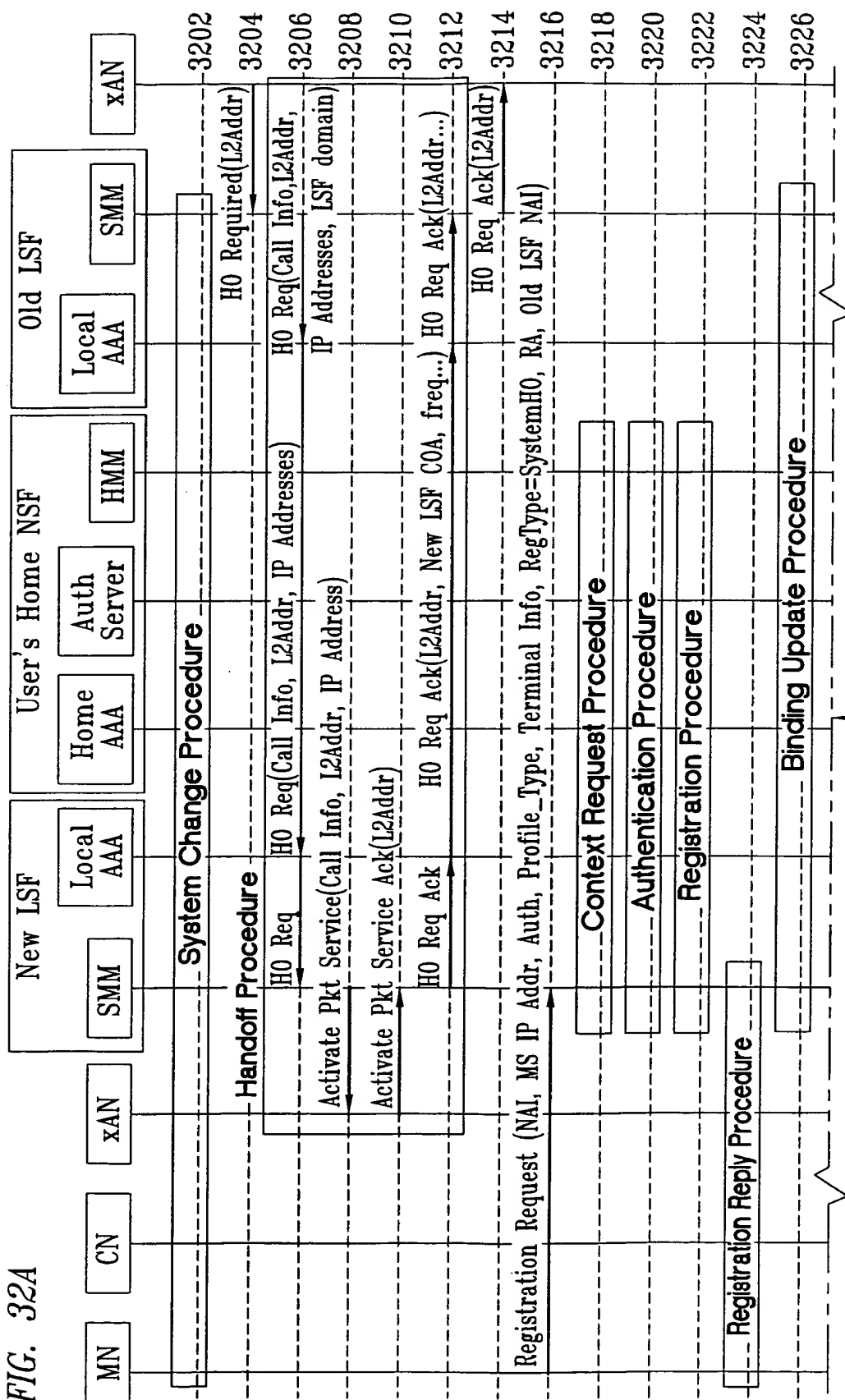


FIG. 32B

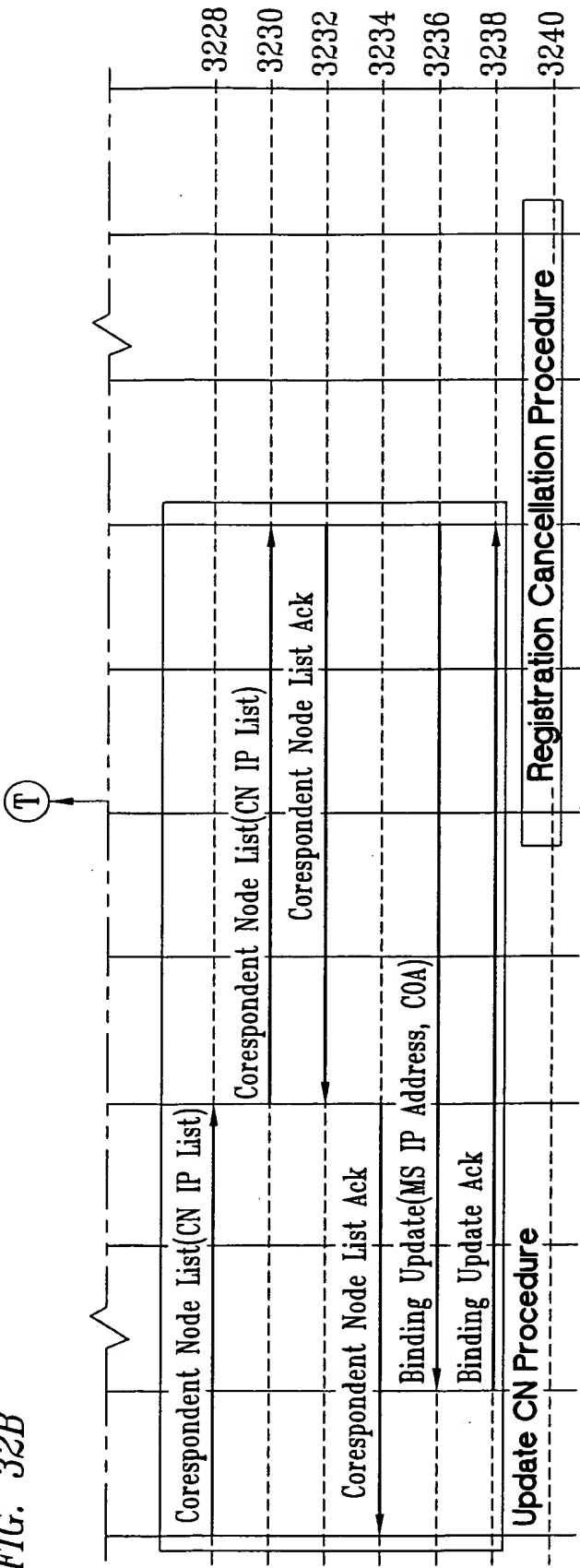




FIG. 33A

FIG. 33A

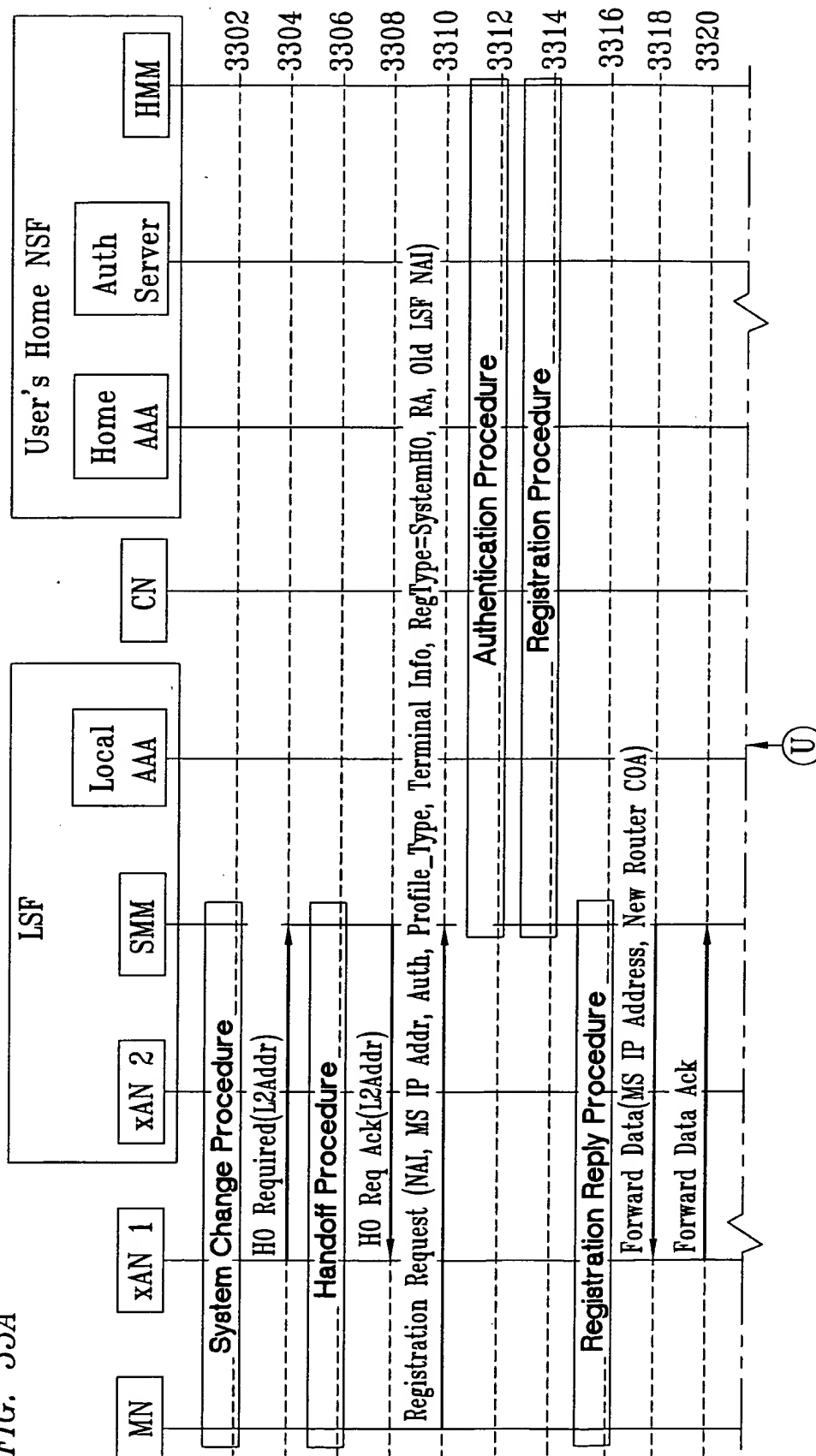


FIG. 33B

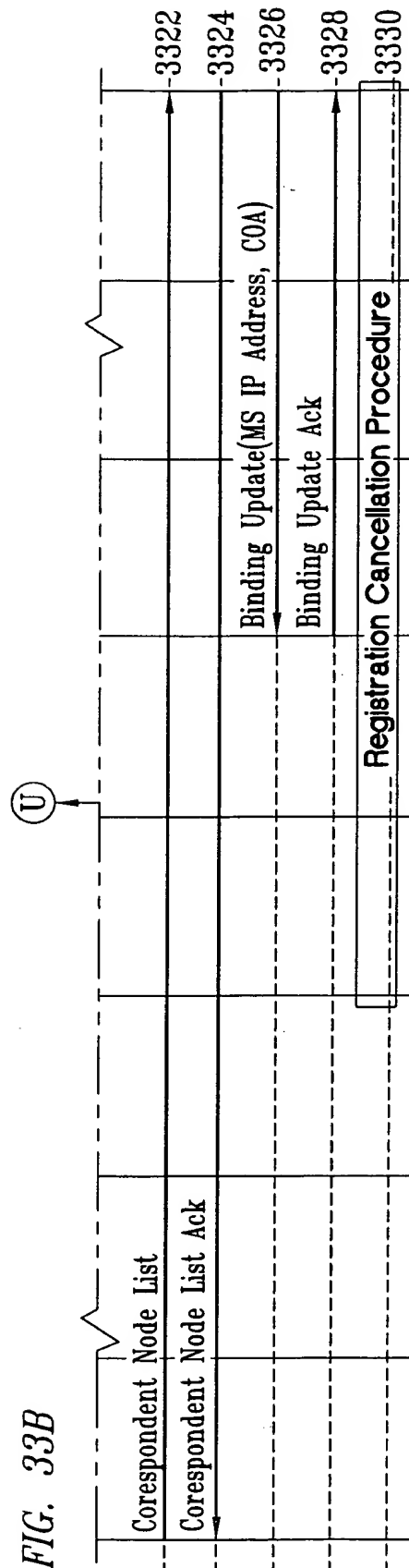


FIG. 34

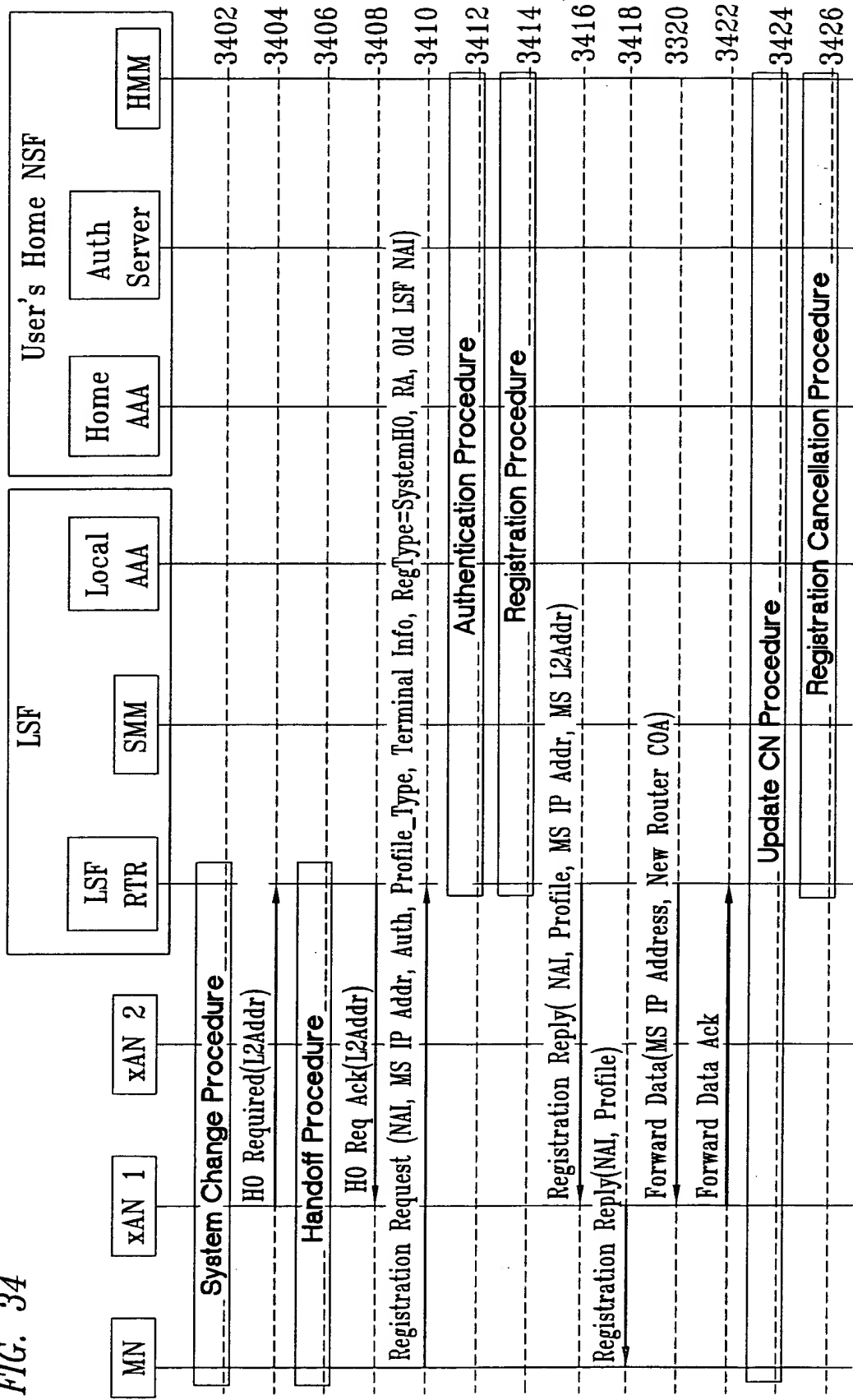


FIG. 35

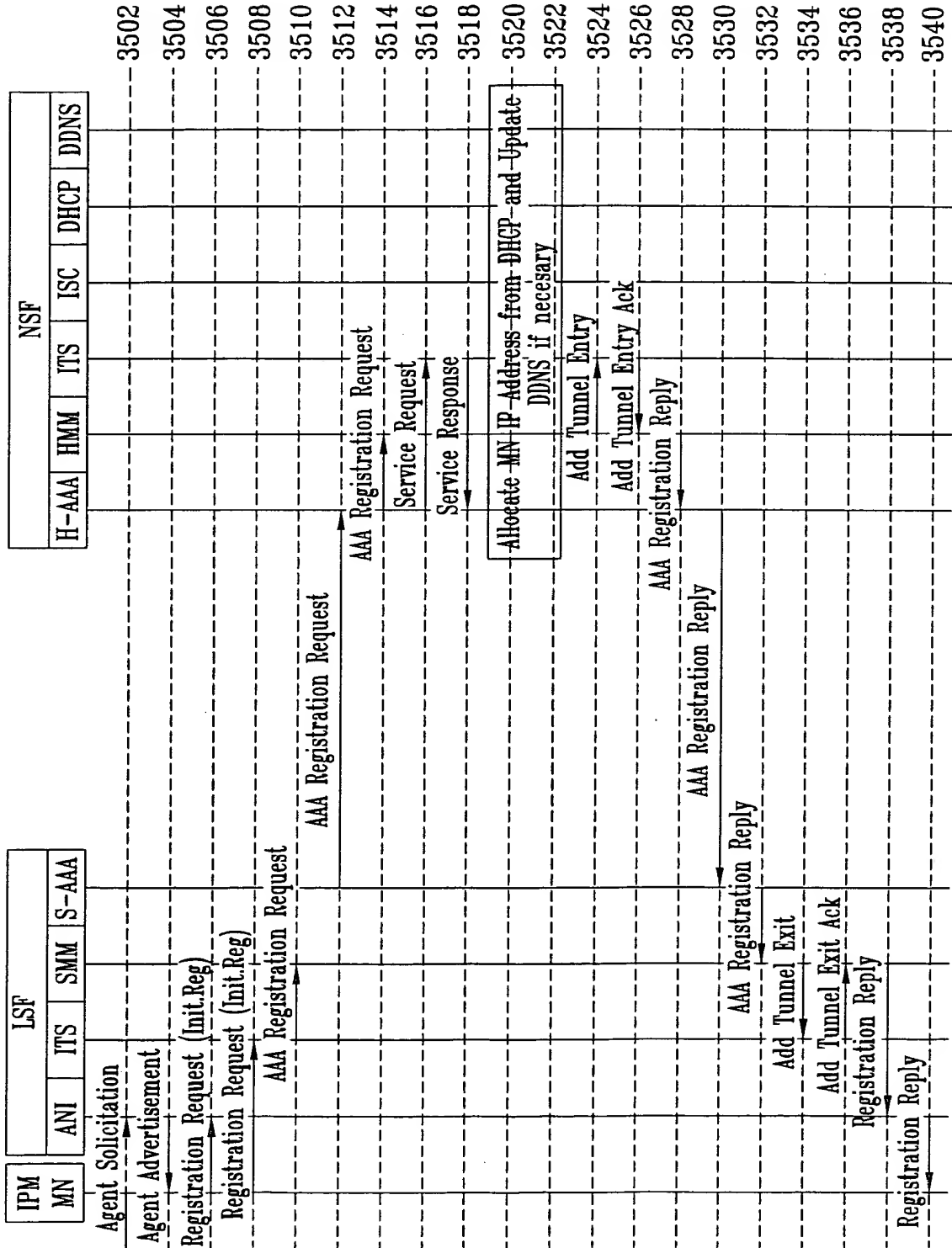


FIG. 36

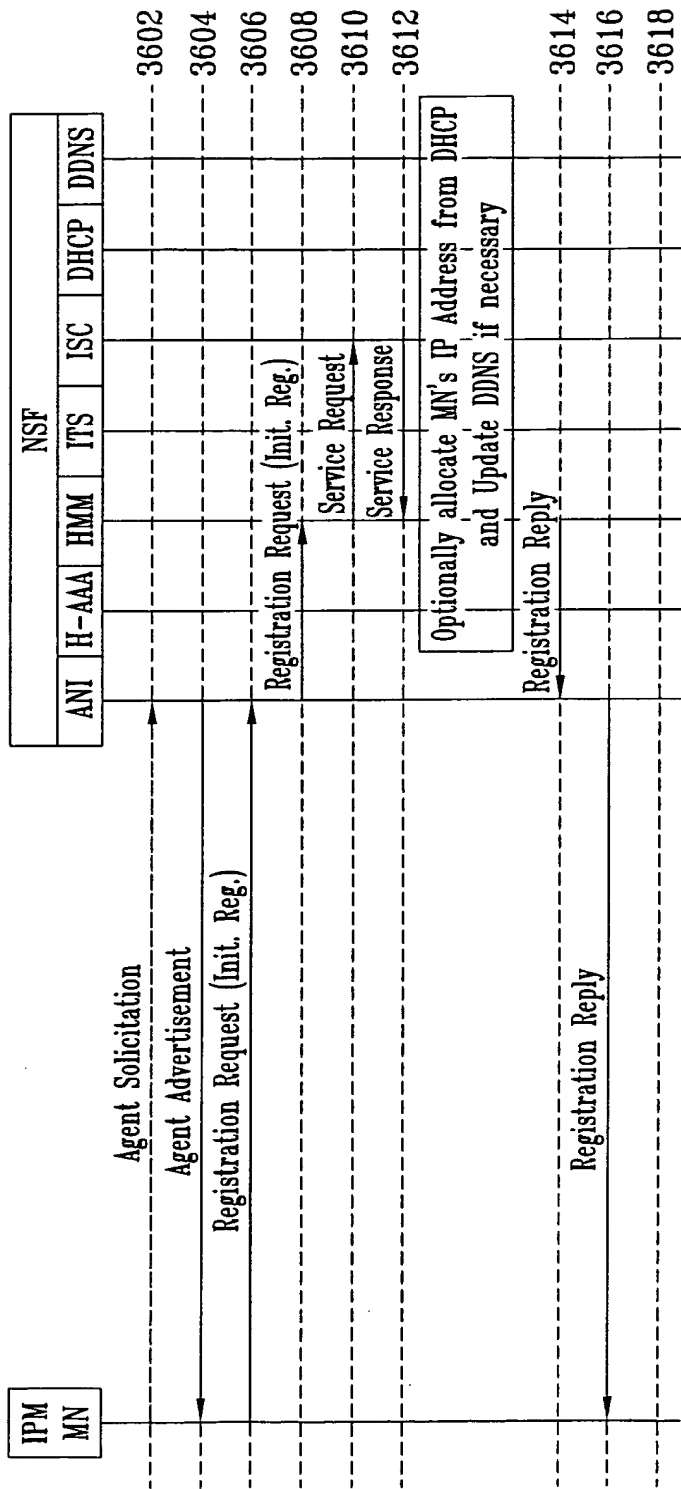


FIG. 37

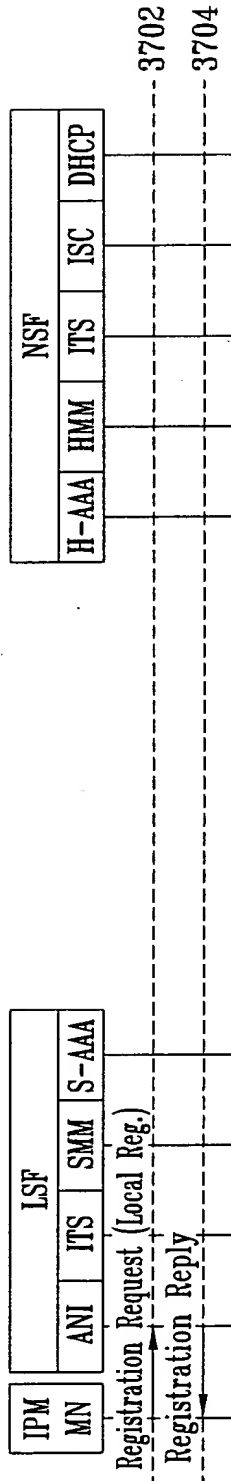
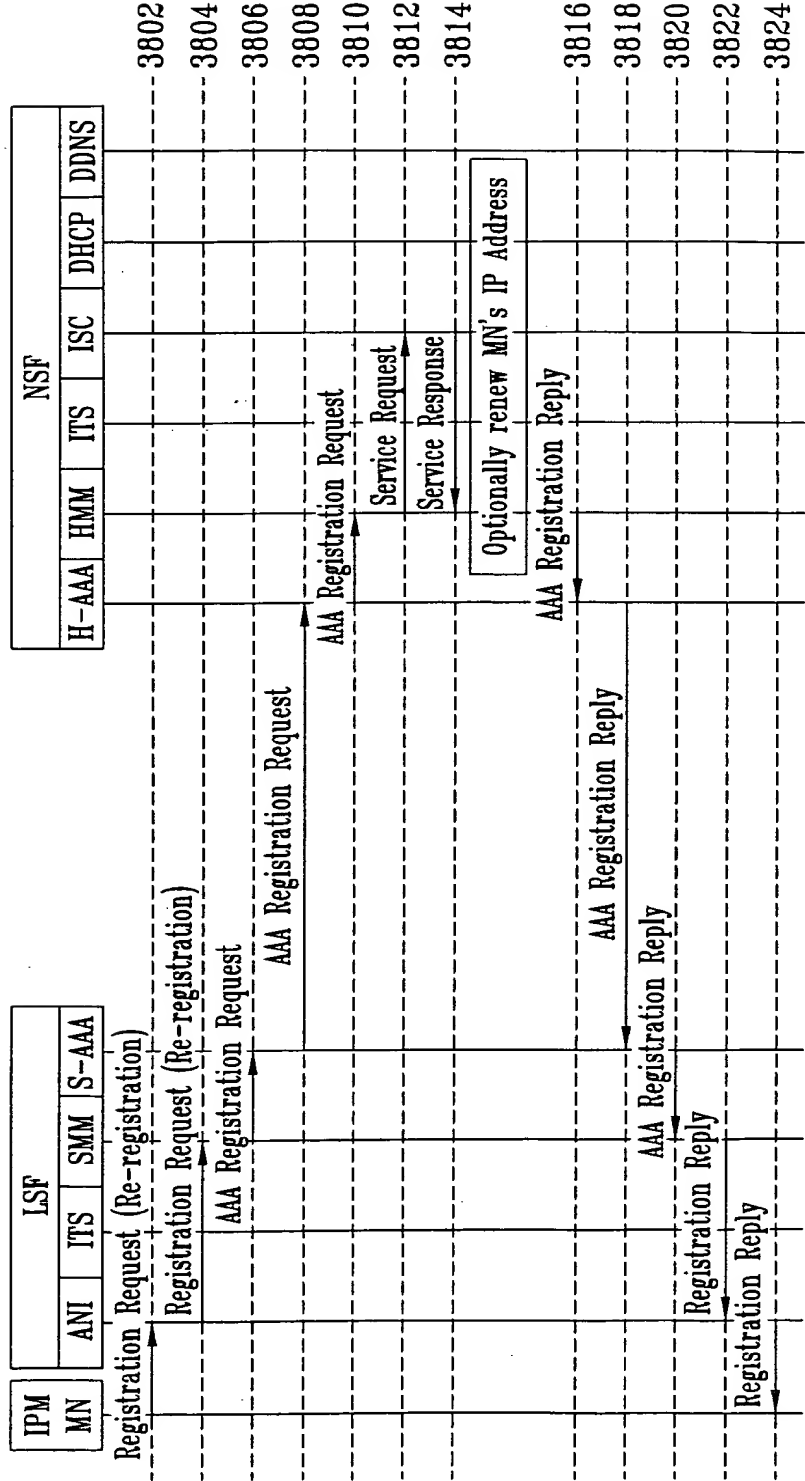


FIG. 38



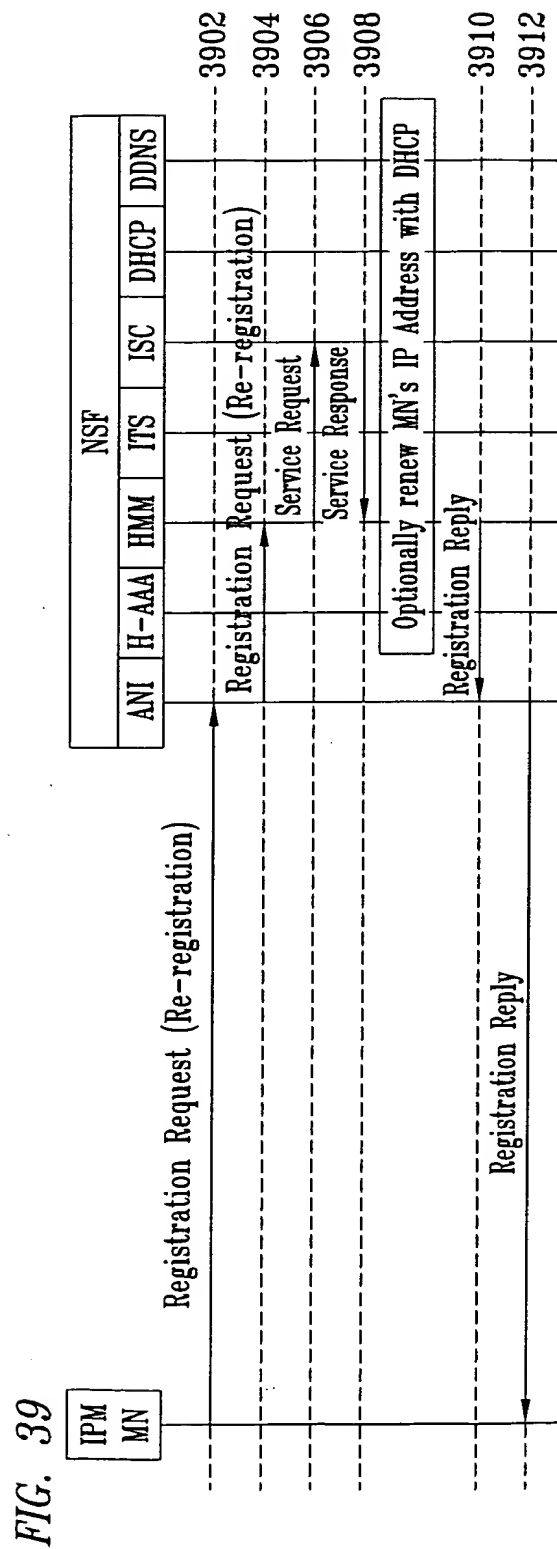






FIG. 41

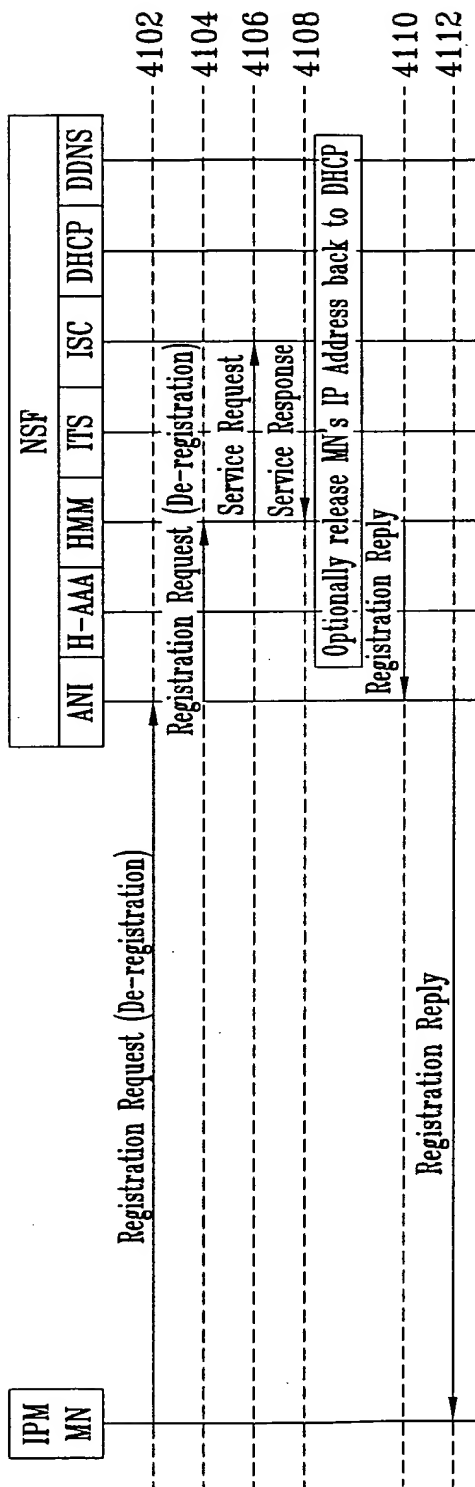


FIG. 42

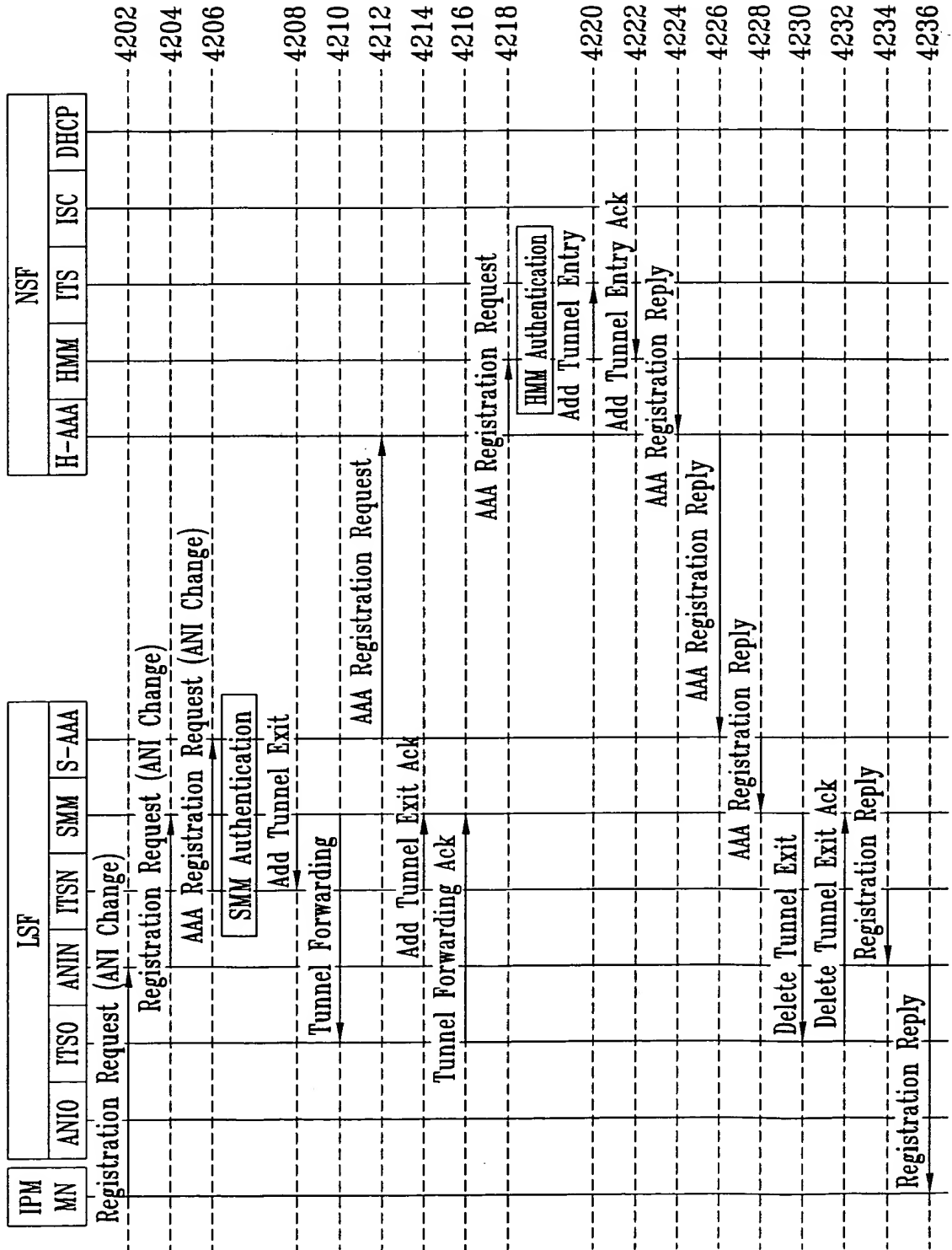


FIG. 43

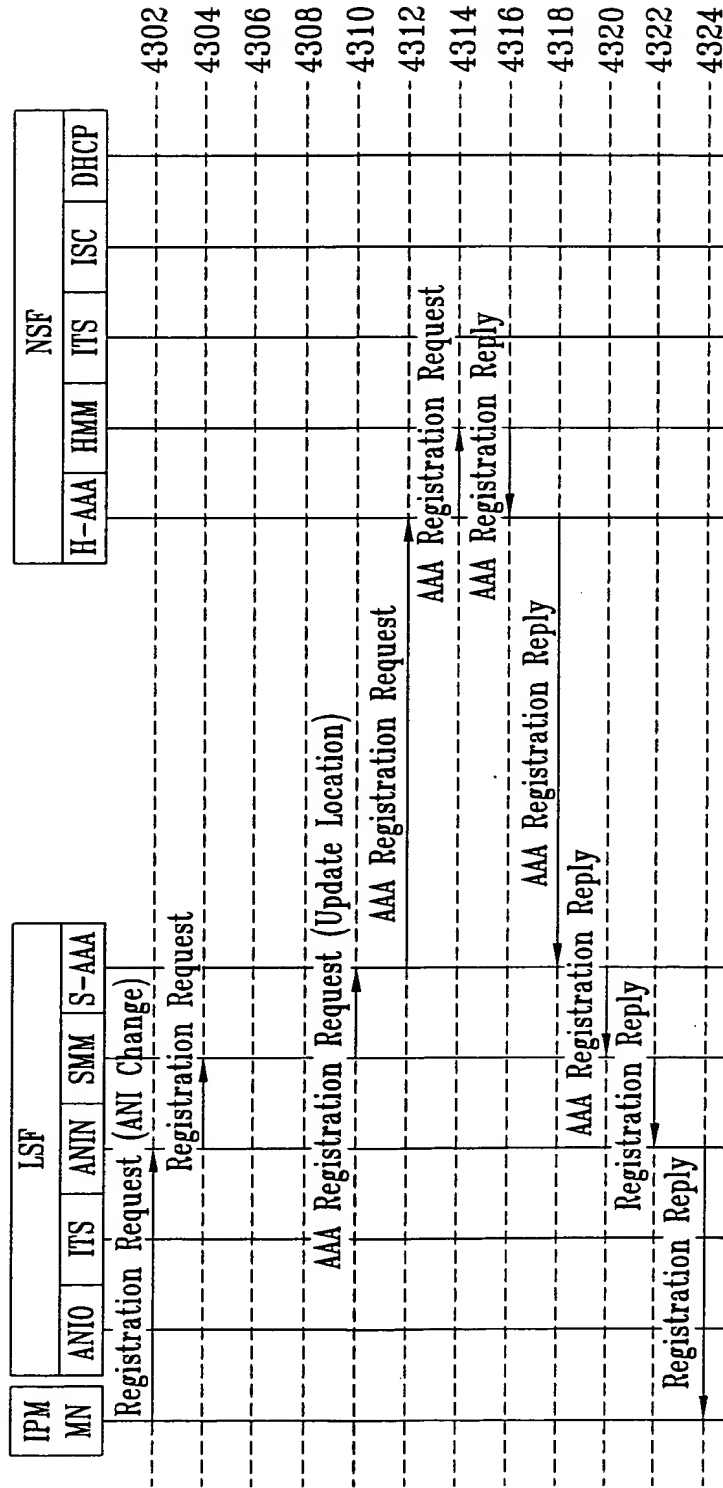
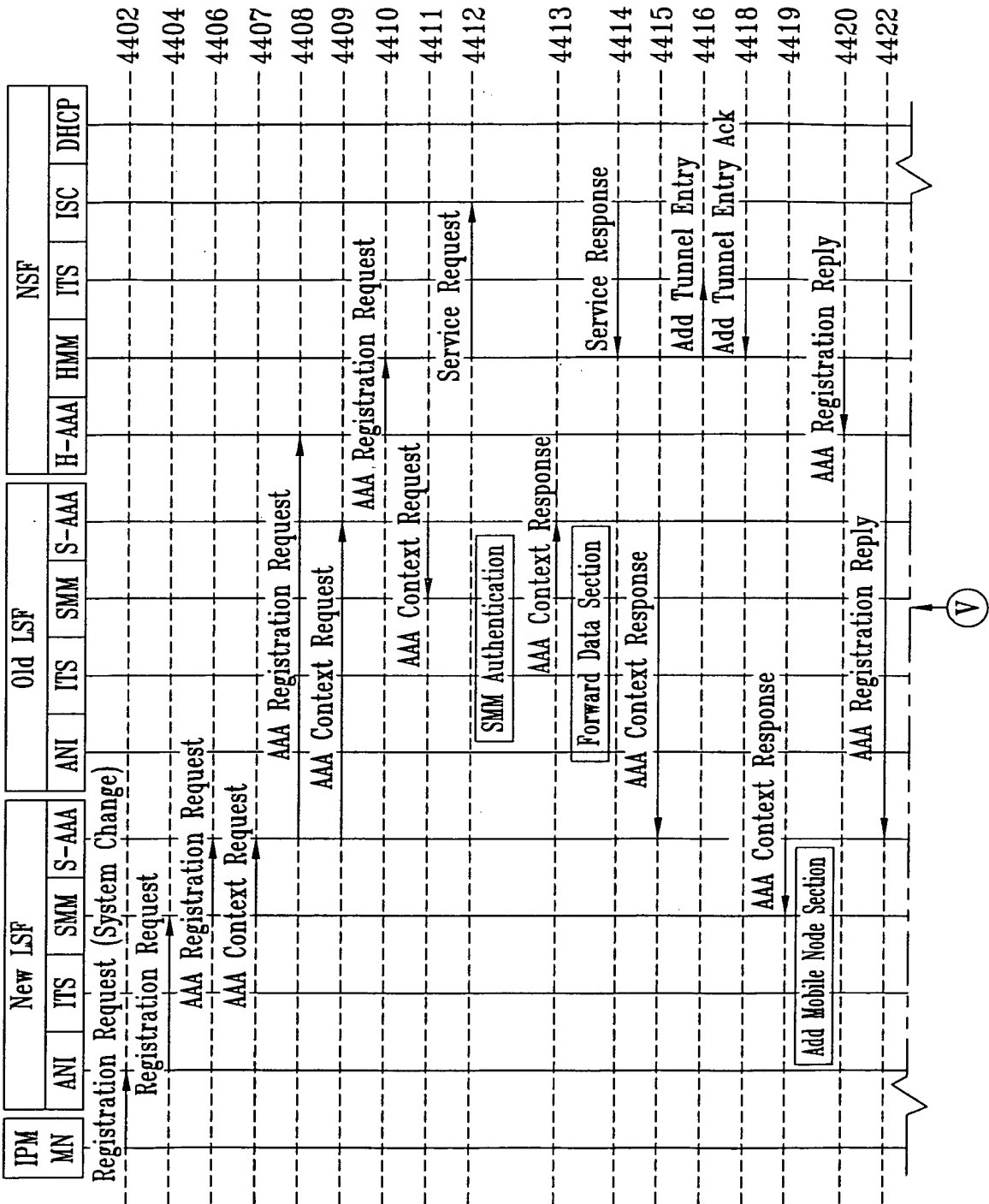


FIG. 44A



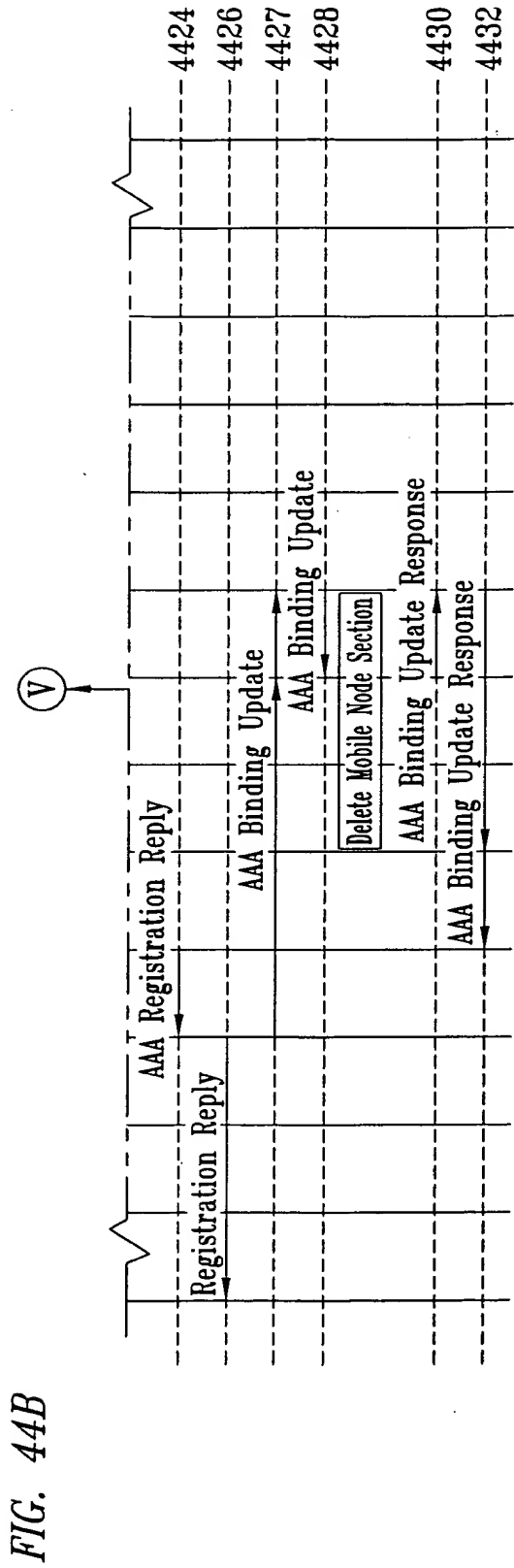


FIG. 45

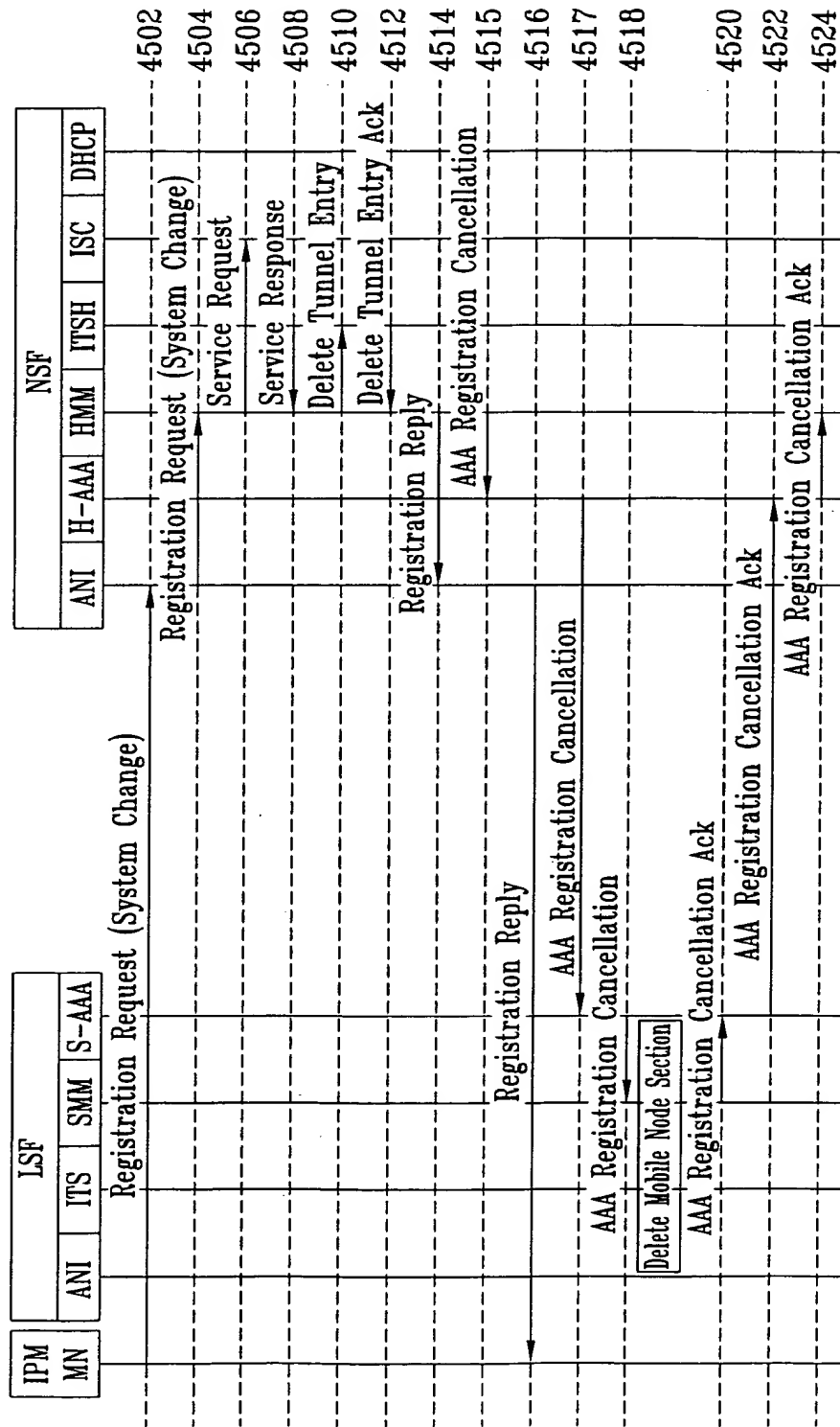
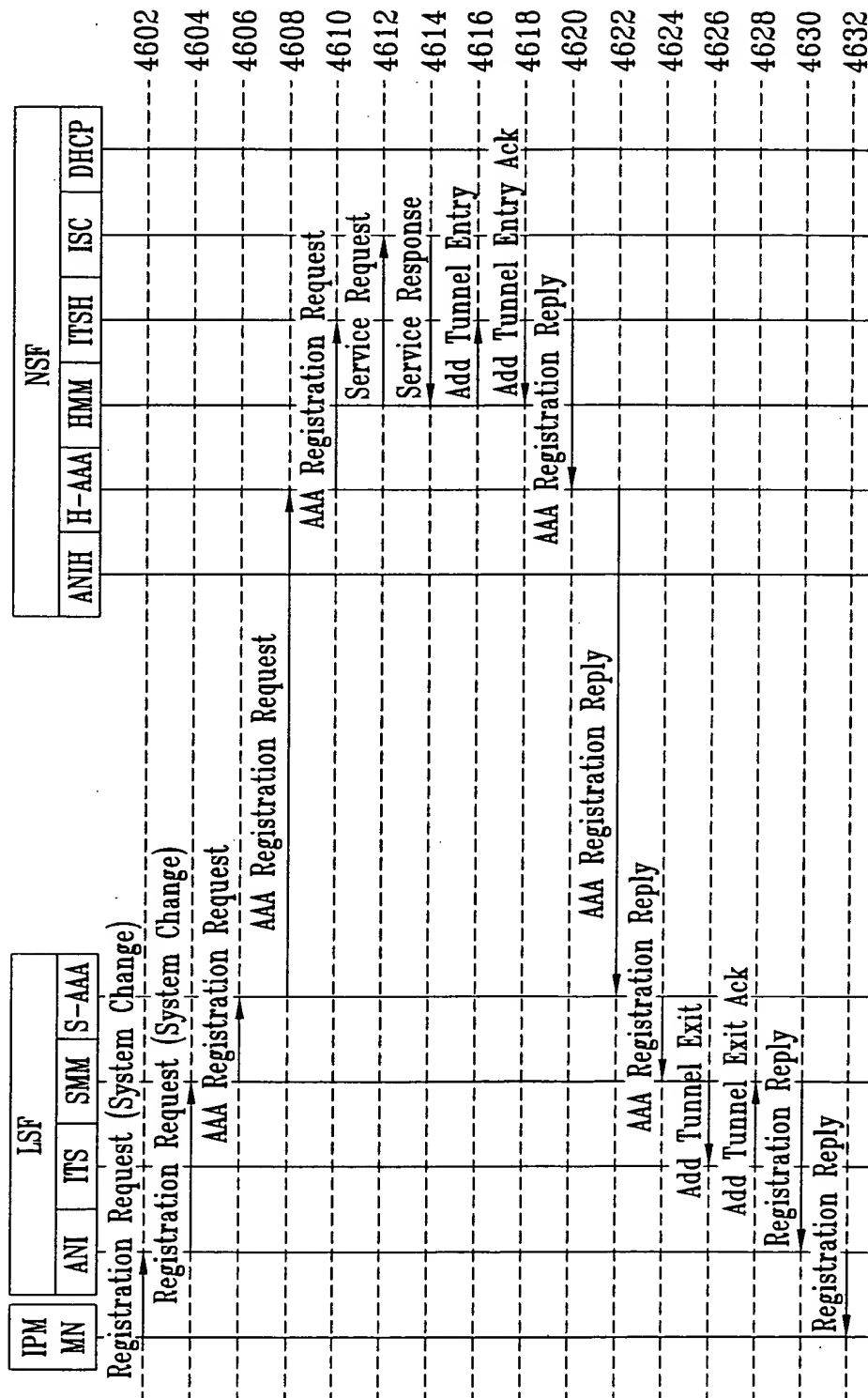


FIG. 46



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FIG. 47

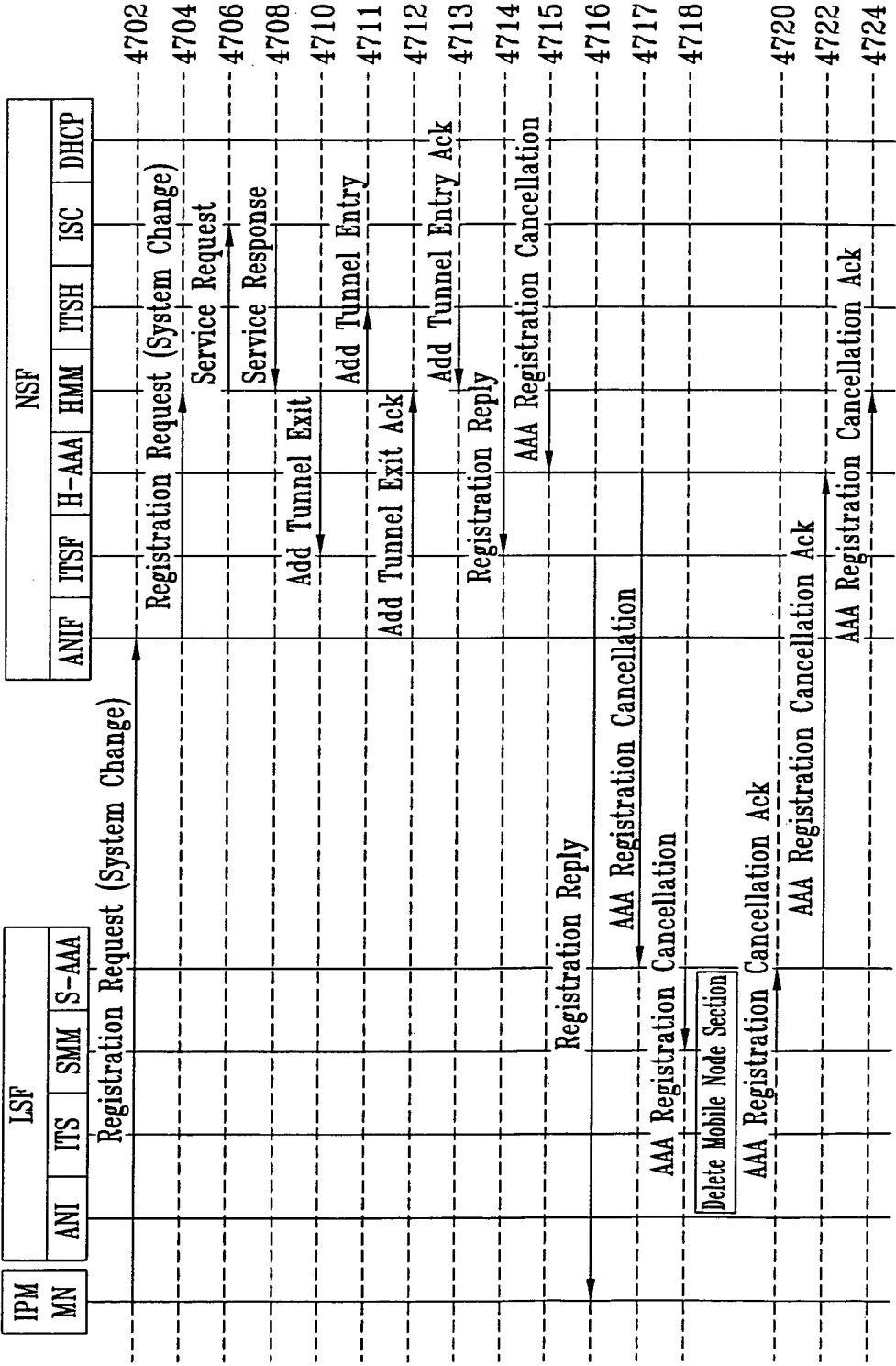




FIG. 48

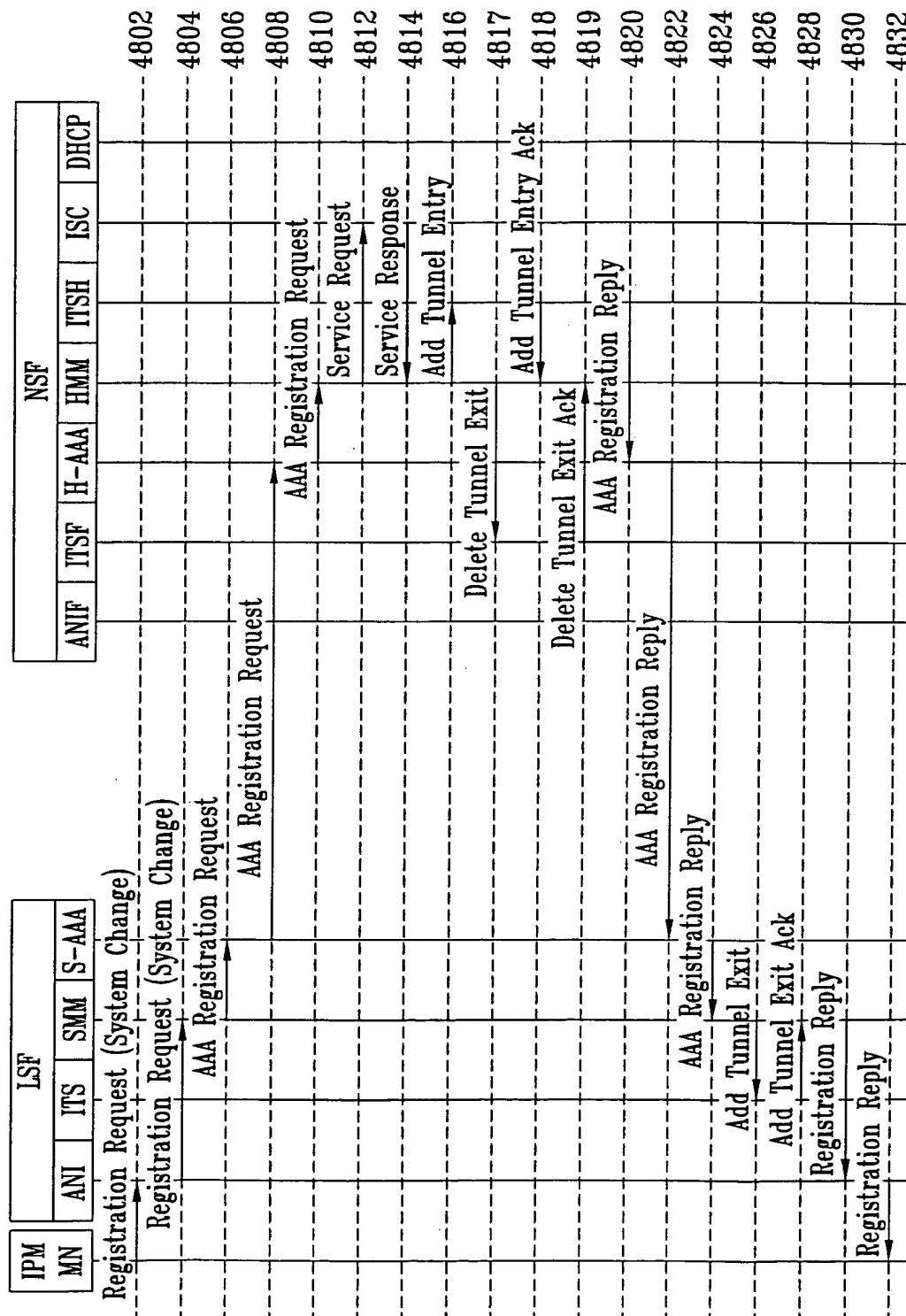


FIG. 49

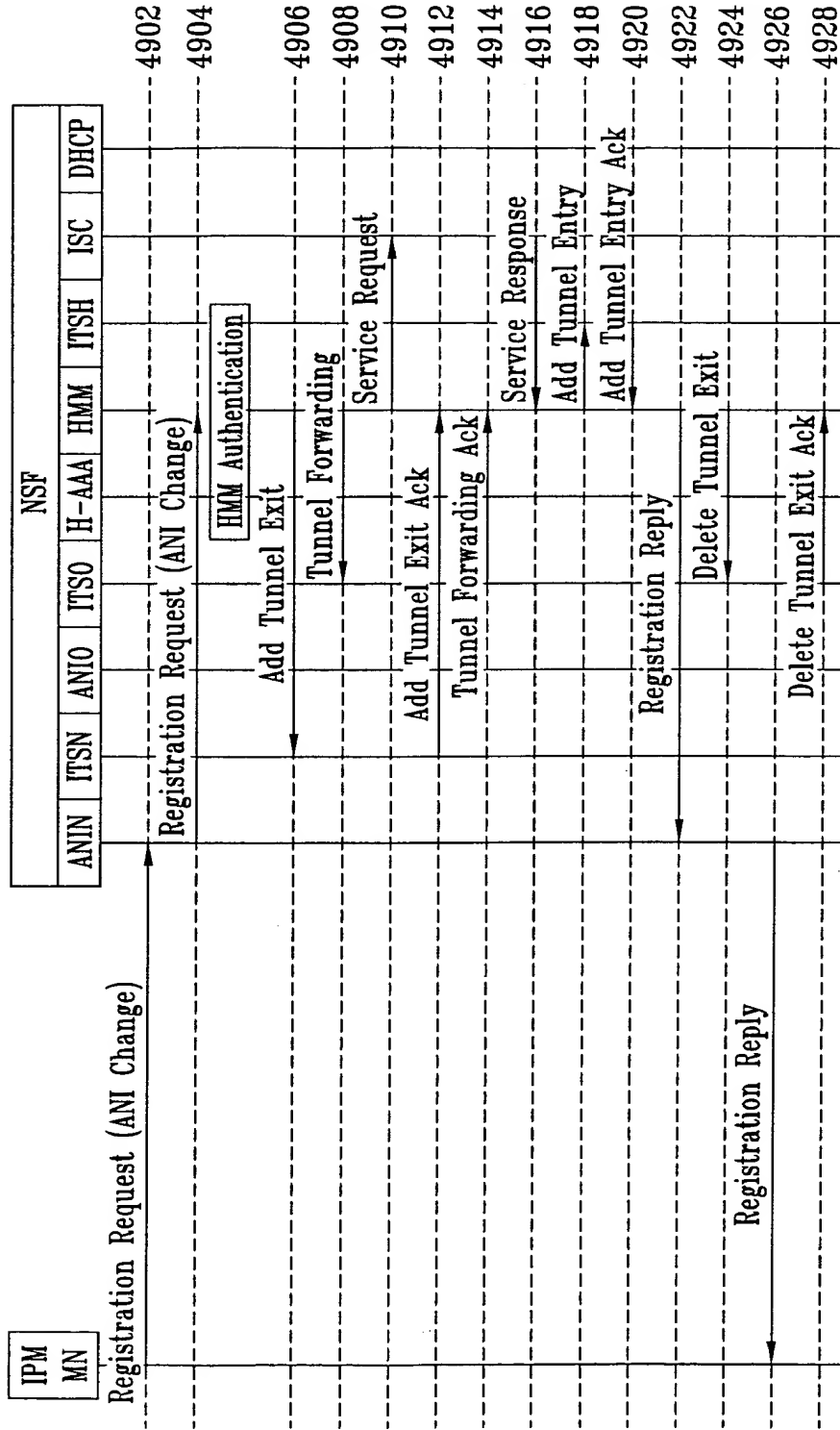
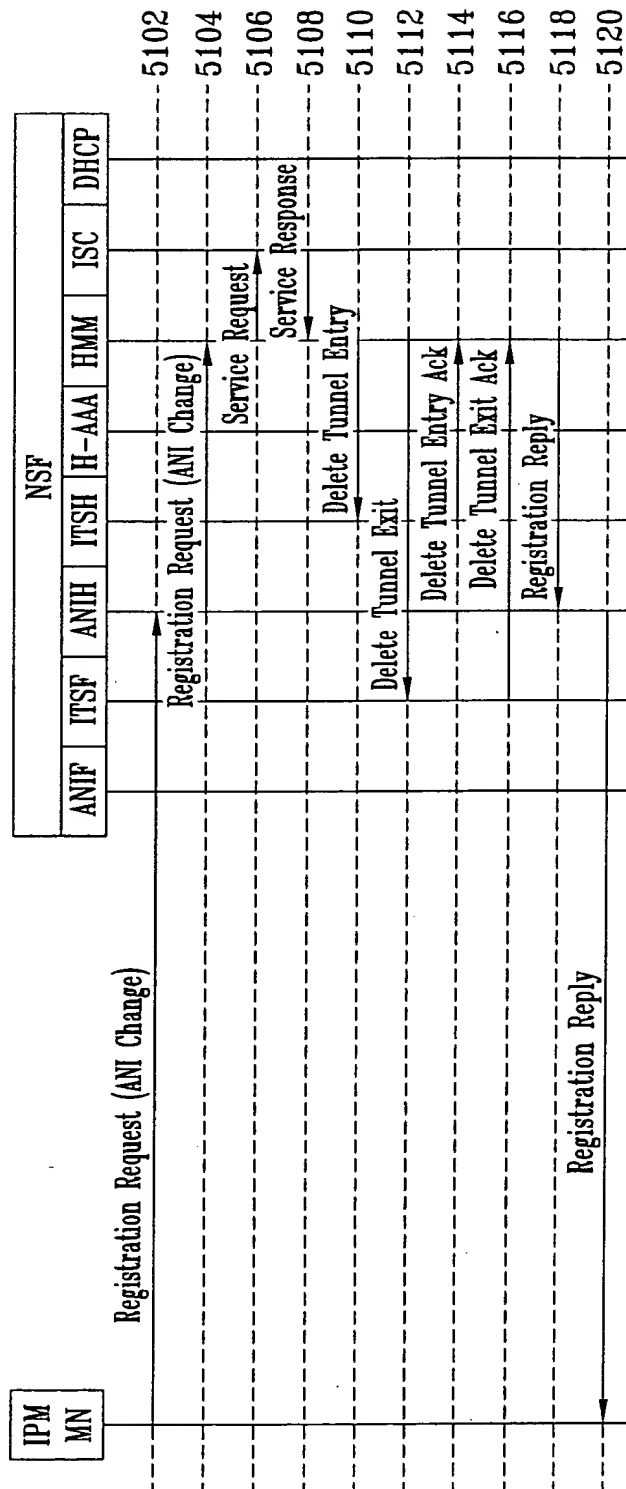
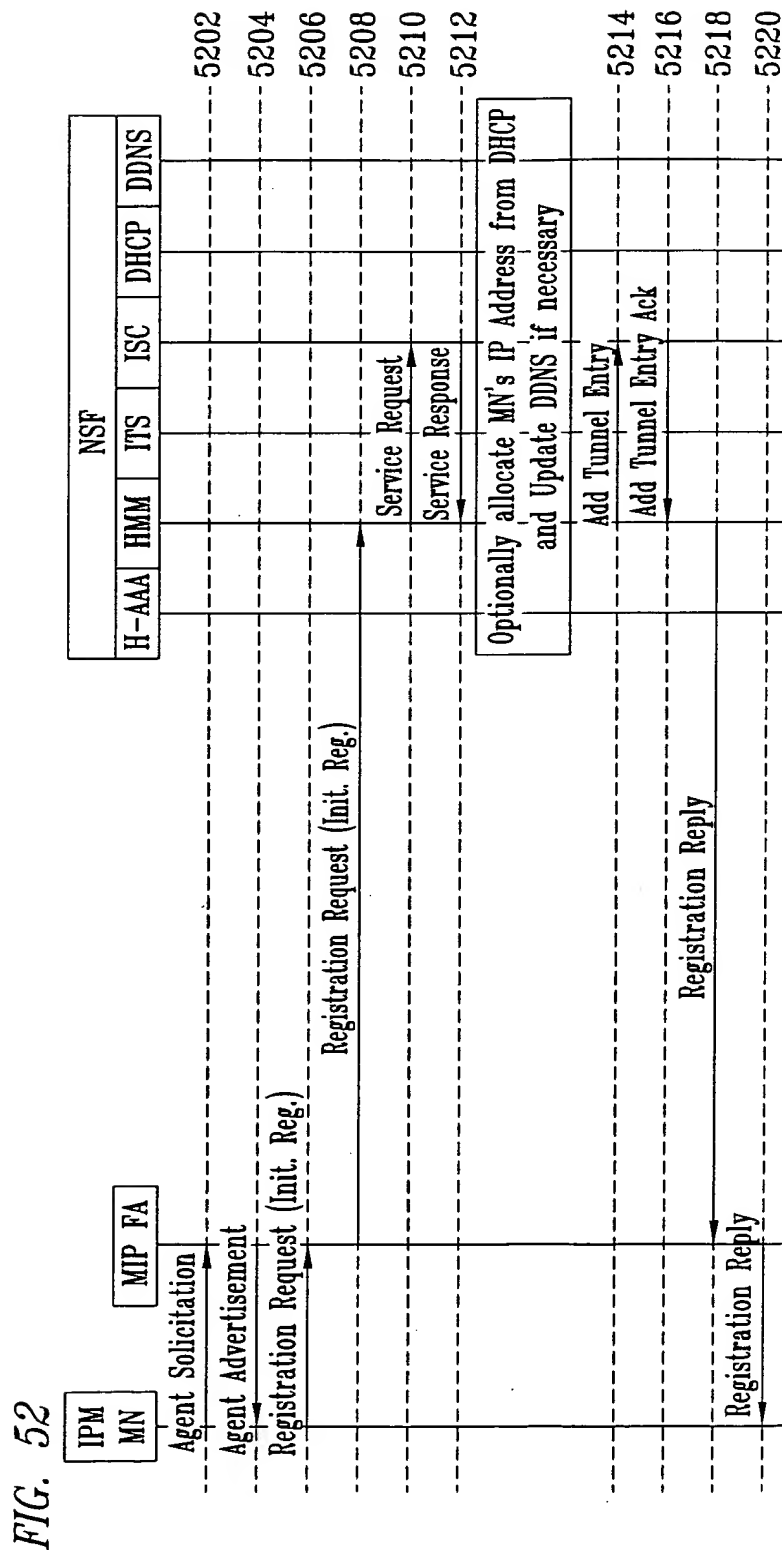


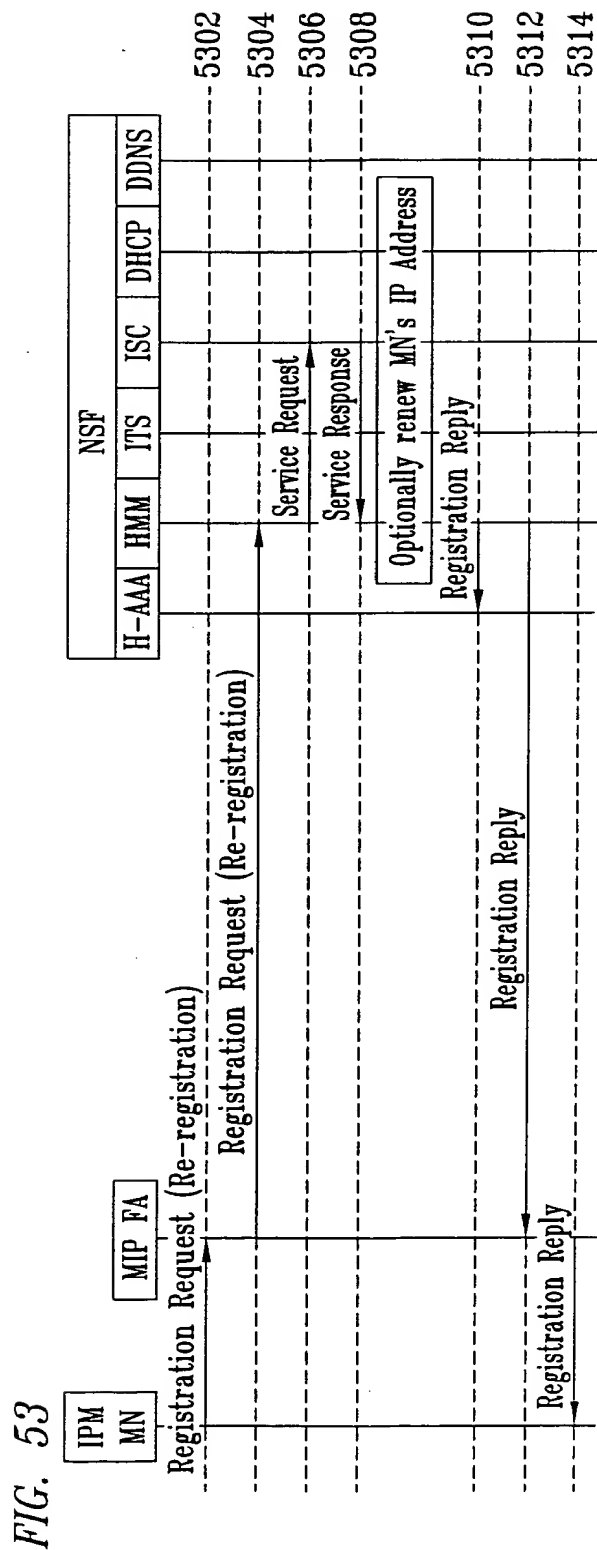


FIG. 51





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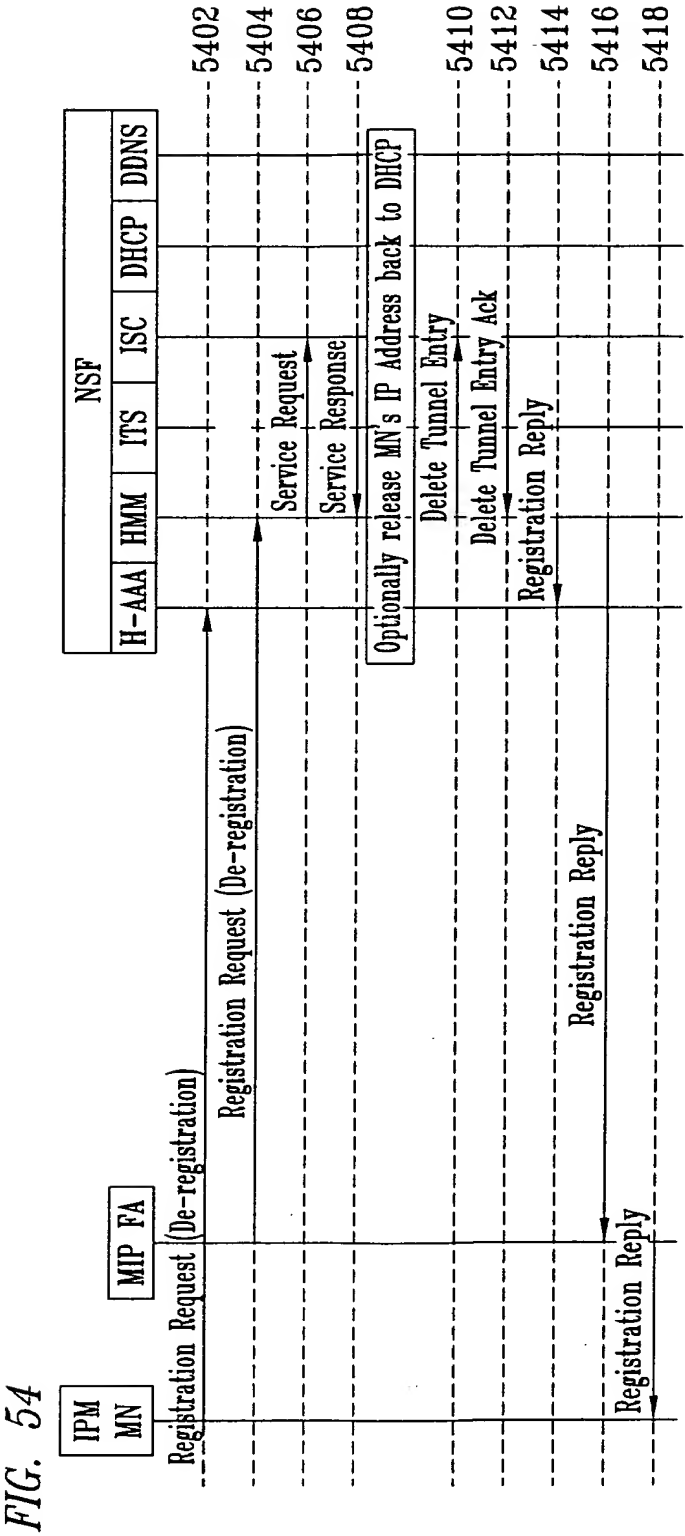


FIG. 55

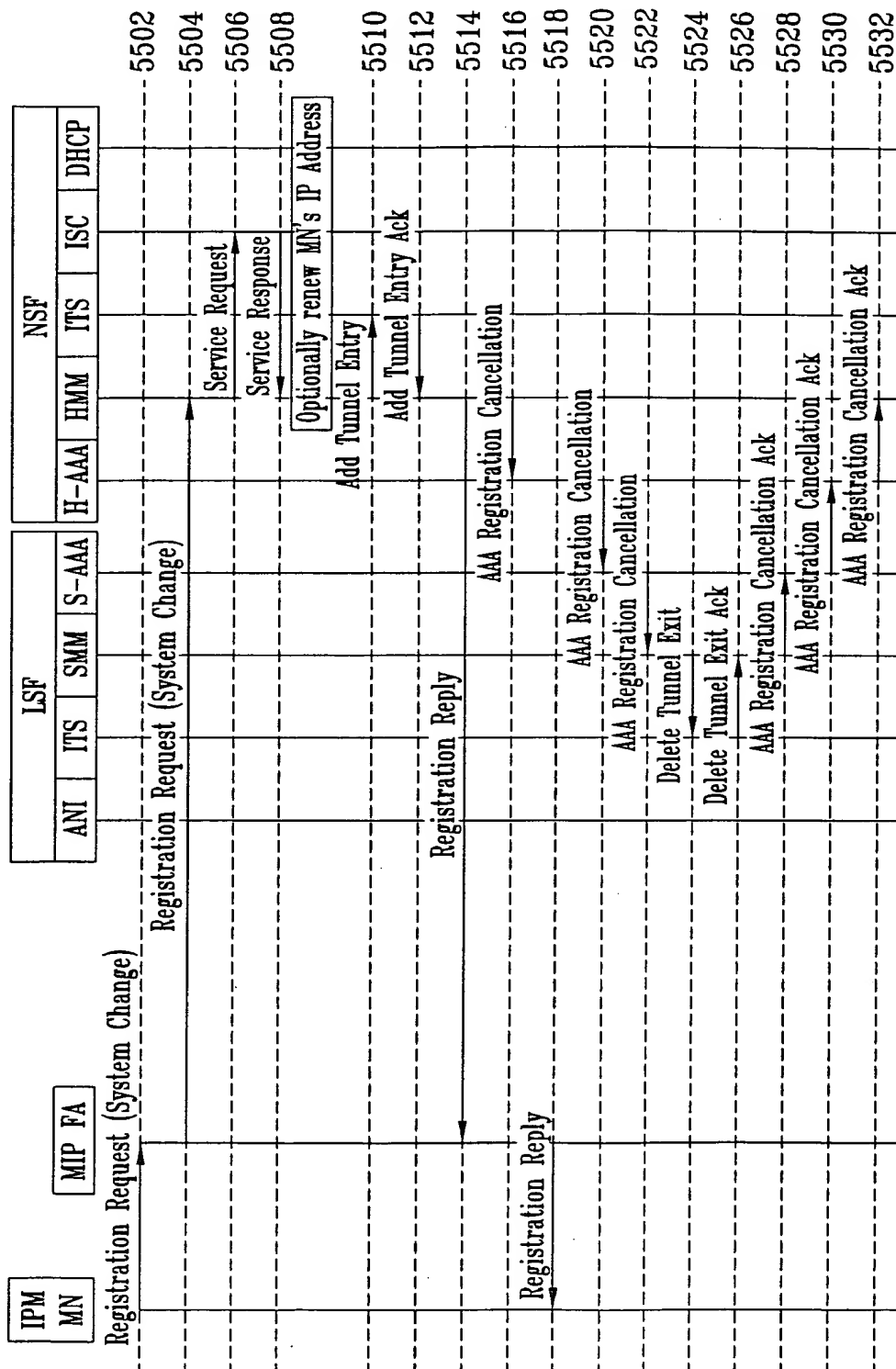




FIG. 56A

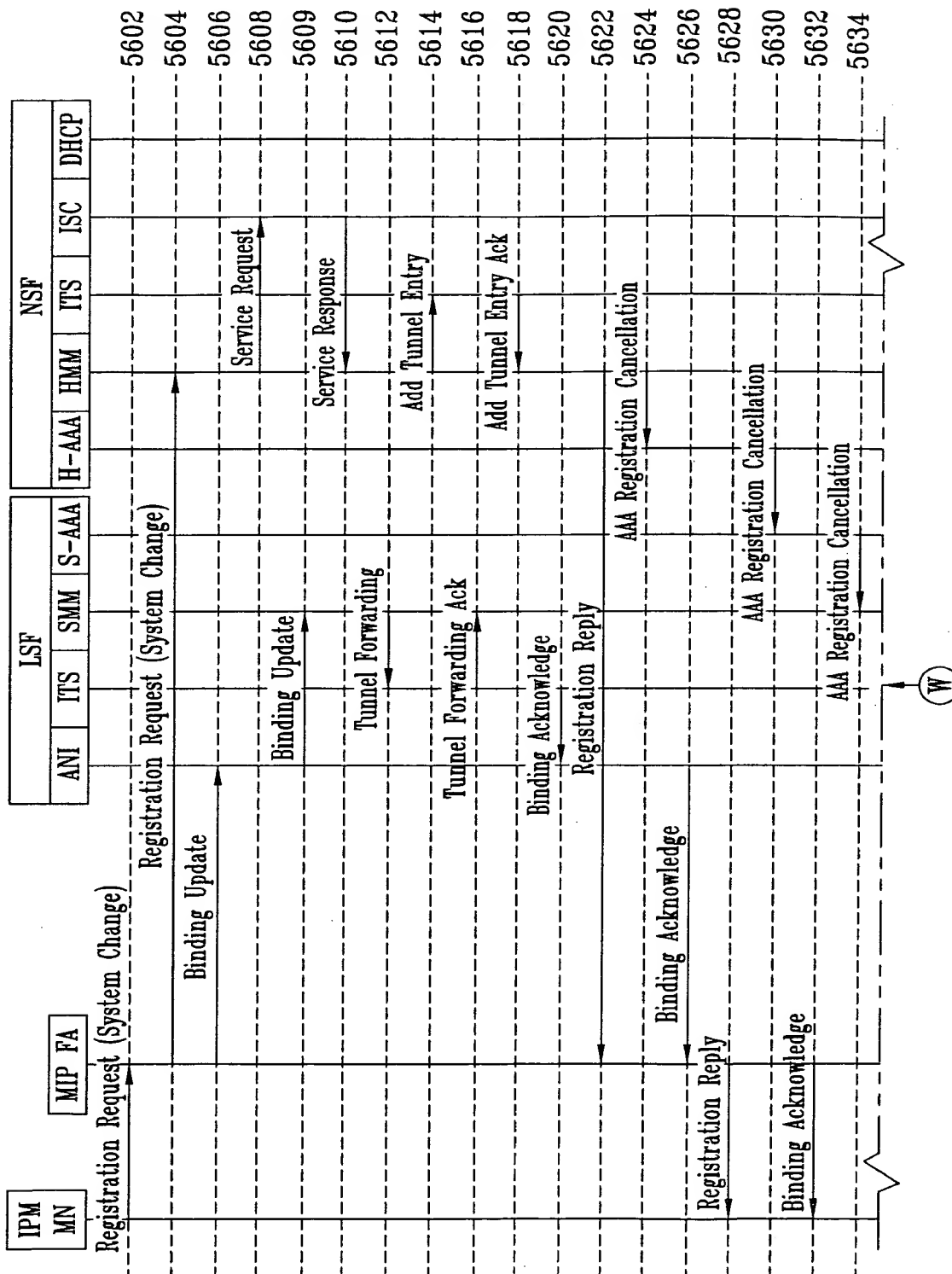


FIG. 56B

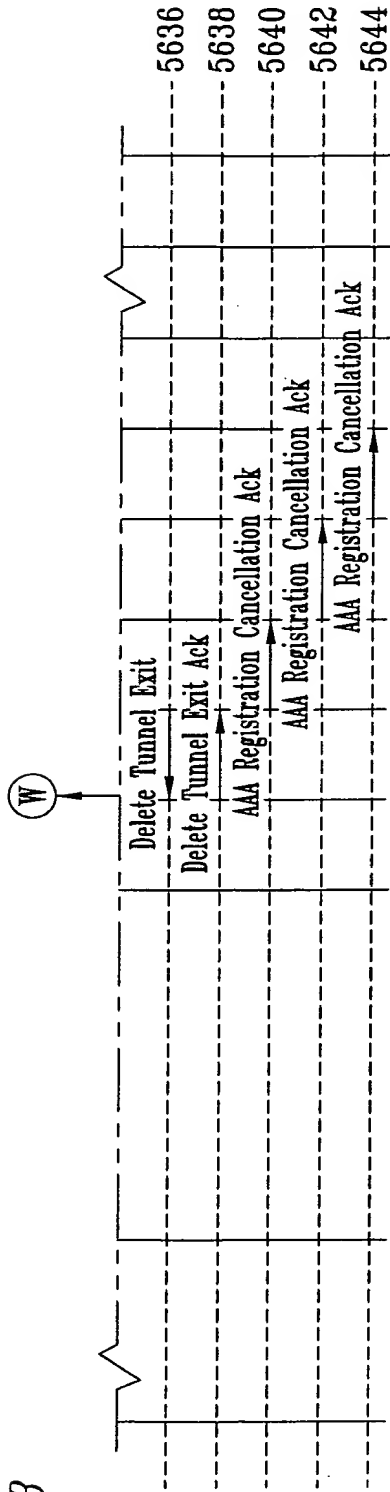


FIG. 57

